

THANK YOU TO EVERYONE WHO MADE THIS EVENT POSSIBLE

Dr. Petersen thanks each of the advisory committee members, technical session leaders, exhibitors, staff, and attendees for their efforts in making TPS a continuous success. This year, we present another unparalleled exhibt hall and cutting-edge technical program while fostering an environment that promotes peer-networking and continuous education in the turbomachinery and pump communities.

ORGANIZED BY





TURBOMACHINERY LABORATORY
TEXAS A&M ENGINEERING EXPERIMENT STATION

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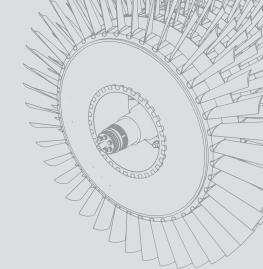
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The Voice of Industry





CONNECT

We create connections for industry professionals.



INFORM

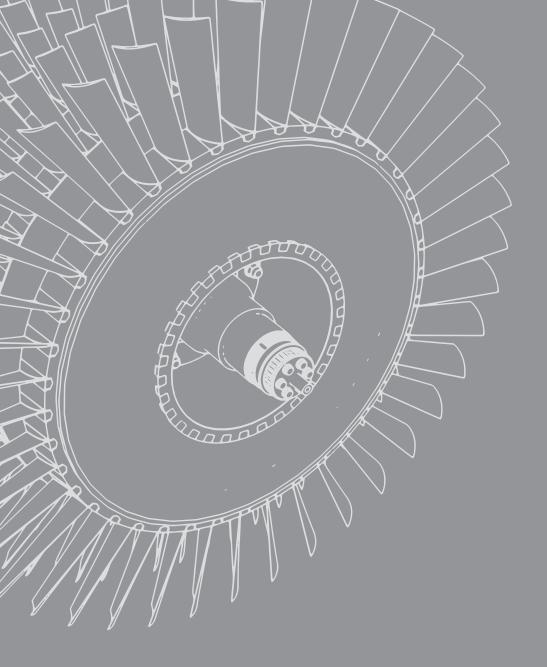
We publish relevant content that helps our industry find answers to their questions.



EDUCATE

We help new and existing professionals increase their knowledge.

EMPOWERINGPUMPS.COM @EMPOWERINGPUMPS #EmpoweringIndustryPodcast



INTRODUCTION

Power Transmission Engineering

The Magazine of Mechanical Components



The Gear Industry's Information Source



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THE VOICE OF THE GLOBAL PUMP INDUSTRY

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Pumps & Systems has been the world's leading pump and rotating equipment information source since 1993. Our subscribers include more than 60,600 BPA-qualified managers, engineers, operators and maintenance professionals. Online at pumpsandsystems.com, we boast an average of 120,204 unique visitors per month.









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Women of TPS Luncheon & Event Prize



Delegate Bags



Social Media



Event Prize







Pens



Event Prize



Lanyards



Highlighters



Koozies



Notepads



Aisle Signage

BEOUR GUEST!



With a WiFi-enabled device, find the wireless network named TurboPump.

Once connected to the network, open up an internet browser.

You will automatically be directed to the splash page, regardless of what your home page is set to.

There is no password required. Press Connect.

THANK YOU MEDĮA PARTNERS













































HYDROVISION.













ADDITIONAL EVENTS



WHO IS INVITED?

All TPS attendees, including Free Pass

WHEN?

Tuesday, 8:00 A.M. - 8:35 A.M.

WHERE?

Level 3, Grand Ballroom C

More information will be provided regarding the speakers for the Welcome Address the week before the conference.

WOMEN OF TPS LUNCHEON

WHO IS INVITED?

All TPS attendees. Registration is required. Add to any registration option.

WHEN?

Wednesday, 12:00 P.M. – 1:30 P.M.

WHERE?

Level 3, Room 350E

Women of TPS was organized to recognize the women making a dilerence in historically male-dominated STEM industries. It provides attendees the opportunity to network with other successful women and men in the turbomachinery, pump, oil and gas, water, power, and chemical/petrochemical sectors. Join us for a plated meal, bingo, and special presentations. Space is limited and seats are \$75.00 per person.

MOBILE APP

WHO IS INVITED?

All TPS attendees, including Free Pass

Search for and download our Texas TPS mobile app from your preferred app store the week before the event. Your username is your registered email and the password is TURBOPUMP.

SOCIAL MEDIA SCAVENGER HUNT

WHO ĮS ĮNVĮTED?

All TPS attendees, including Free Pass

WHEN?

Tuesday & Wednesday, 8:00 A.M. – 5:00 P.M.

WHERE?

Level 1, Exhibit Halls C, D, E

Scattered throughout the Exhibit Floor are items on the Get Social TPS Social Media Scavenger Hunt list. Visit participating exhibitors, take pictures, and share it to social media with our hashtags to play. Once completed, drop your list in the rake box located at TPS Booth 2022. Two winners are drawn each day. Each winner will receive a \$100 Amazon gift card.

Winners will be announced on Facebook Live at 5:30 P.M. on Tuesday and Wednesday.

ADDITIONAL EVENTS



WHO ĮS ĮNVĮTED?

Spouses of Symposia delegates

WHEN?

Tuesday, 11:30 P.M. - 2:30 P.M.

WHERE?

McHugh Tea Room

Spouses of Symposia Delegates will meet in the Hilton Hotel lobby by the gift shop at 11:15 A.M. to take a shuttle to the McHugh Tea Room. Transportation and afternoon tea provided by the Turbomachinery Laboratory.

INNOVATION PRESENTS STAGE

WHO IS INVITED?

TPS Symposia and Free Pass Delegates

WHEN?

Tuesday & Wednesday, 3:30 P.M. – 5:20 P.M.

WHERE?

Level 1, Exhibit Hall D

The Innovation Presents Stage is a platform for exhibiting companies to provide 20-minute commercial presentations to Symposia attendees. A schedule can be found in this Show Guide and near the stage.

DINNERS

WHO IS INVITED?

Symposia and meal tickets are purchased separately.

WHEN?

Tuesday | Tex-Mex Buffet | 7:30 P.M. – 9:00 P.M. Level 2, Hilton Ballroom of the Americas D

Wednesday | Banquet | 7:30 P.M. – 9:00 P.M. Level 2, Hilton Ballroom of the Americas D

The Turbomachinery Laboratory, organizer of TPS, hosts two dinners during the Symposia. Badges required. Not open to Free Pass.

ADDITIONAL EVENTS



WHO IS INVITED?

All TPS attendees. Registration is required. Add-on to any registration option.

WHEN?

Thursday, 12:15 P.M. - 6:00 P.M.

WHERE?

Meet in front of the gift shop at the Hilton. Transportation will be provided.

Where is the Turbomachinery Laboratory at Texas A&M? How is it equipped? What research projects are in progress? Take a tour of the lab with us on Thursday afternoon following TPS. You can add the tour to any registration option. Space is limited. Lunch and transportation are provided.

HOSPITALITY SUITES

WHO ĮS ĮNVĮTED?

TPS Symposia and Free Pass Delegates

WHEN?

Monday – Wednesday, 6:00 P.M. – 10:00 P.M.

WHERE?

Companies can choose to host a hospitality suite for their guests. All hospitality suites are located at Hilton Americas – Houston. Please see the Schedule at a Glance for more information.

DR. DARA CHILDS MEMORIAL SERVICE

WHO IS INVITED?

Open to all who wish to attend.

WHEN?

Tuesday, 5:30-6:30 PM

WHERE?

Level 3, Room 350D

Please join us as we honor the life of Dr. Dara Childs, former Turbomachinery Laboratory Director and TPS Chairman.

2025 SHORT COURSE OFFERINGS

The Turbomachinery Laboratory makes a vital impact on turbomachinery, pump, and related industries through three pathways: research, education, and workforce development. As part of its workforce development arm, the Turbo Lab offers extended short courses throughout the year that are led by industry experts and academics. Courses range from three to five days and offer working professionals valuable education opportunities in an interactive environment. Continuing Education Units (CEU) are awarded upon course completion.

Machinery Vibration & Rotordynamics

WHEN?

January 6 - 10, 2025

WHERE?

DoubleTree by Hilton IAH Hotel

The Machinery Vibration & Rotordynamics short course offers a practical approach to understanding basic vibration theory and using it to solve mechanical vibration problems. Rotordynamics terminology in common use will be defined and explained, including critical speeds, critical speed inversion, unbalance response, and rotordynamic instability. Covers rotordynamic topics including force coefficients for bearings, seals, impellers, turbine wheels, and squeeze film dampers; troubleshooting oil film bearings; the finite element and transfer matrix methods; and more.

CCOPS (Centrifugal Compressor Operations)

WHEN?

March 17 - 20, 2025

WHERE?

Embassy Suites by Hilton San Antonio Airport Hotel

Entry-level professionals will accelerate their understanding of the technology and how it is used in oil & gas applications. Experienced professionals will enhance their knowledge of current technologies and methods, enabling more effective project



performance and/or maintenance strategies. All participants will add to their network of industry professionals and be able to share ideas, experiences, and questions.

Rotordynamics

WHEN?

March 17 - 20, 2025

WHERE?

Embassy Suites by Hilton San Antonio Airport Hotel

The emphasis for this course is on turbomachines such as turbines, compressors, expanders, motors, pumps, and generators. The intent is to understand the rotordynamics of these machines and their subcomponents to help select, analyze, troubleshoot, and repair them for maximum reliability and minimum vibration problems. This is not a math-intensive course. Case histories and several workshops for hands-on evaluation of actual machines will be given.

Reciprocating Machinery Dynamics

WHEN?

March 17 - 20, 2025

WHERE?

Embassy Suites by Hilton San Antonio Airport Hotel

This seminar will help you understand the fundamentals of machinery and piping vibration and assist you in determining their safety and reliability. Attendees will gain insights into methods of analyzing systems in the design stage to eliminate and prevent problems.

For more information, visit: turbolab.tamu.edu/short-courses-2/



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ASIA TURBOMACHINERY & PUMP SYMPOSIUM 2024 POST-EVENT PROFILE

ATPS is a vital industry event, offering a forum for the exchange of ideas between rotating equipment engineers and technicians worldwide.

ATPS is known for its impact on turbomachinery, pump, oil & gas, petrochemical, power, aerospace, chemical and water industries through its peer-reviewed technical program and international exhibition.



I, 62U Delegates



TECHNICAL SESSIONS

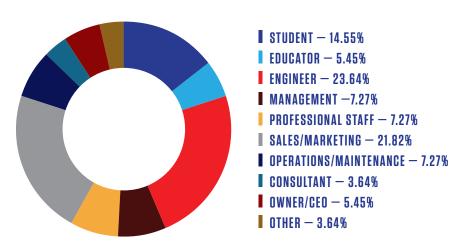


4U EXHIBITING COMPANIES



31

ATTENDEE JOB DESCRIPTIONS

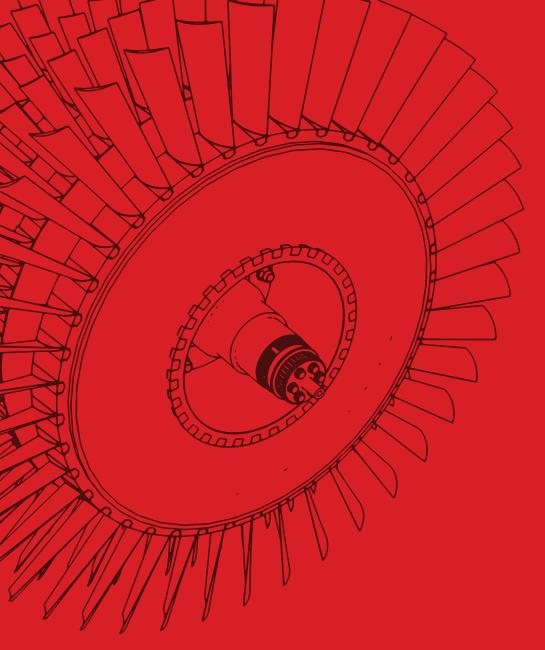


TOP 5 COUNTRIES REPRESENTED

1,360 Singapore/Malaysia

53 USA 48 CHINA **29**

7 United Kingdom



SCHEDULE

SCHEDULE AT A GLANCE

SUNDAY, AUGUST 18, 2024		
4:30 P.M 6:00 P.M.	Exhibitor Registration	Level 1, Exhibit Hall D
4:30 P.M 6:00 P.M.	Delegate Registration	Level 3, Prefunction Area 340/350
4:30 P.M 6:00 P.M.	Leader Registration	Level 3, Room 340A

MONDAY, AUGUST 19, 2024		
7:00 A.M. – 12:00 P.M.	Exhibitor Registration	Level 1, Exhibit Hall D
7:00 A.M. – 12:00 P.M.	Delegate Registration	Level 3, Prefunction Area 340/350
7:00 A.M. – 12:00 P.M.	Leader Registration	Level 3, Room 340A
8:30 A.M. – 5:00 P.M.	Short Courses	Level 3
10:00 A.M 10:30 A.M	Break	Level 3, Lounge Area
12:00 P.M. – 1:15 P.M.	Short Course Luncheon	Level 3, George Bush Grand Ballroom C
1:30 P.M. – 5:00 P.M.	Exhibitor Registration	Level 1, Exhibit Hall D
1:30 P.M 5:00 P.M.	Delegate Registration	Level 3, Prefunction Area 340/350
1:30 P.M 5:00 P.M.	Leader Registration	Level 3, Room 340A
3:00 P.M 3:30 P.M.	Break	Level 3, Lounge Area

TUESDAY, AUGUST 20, 2024		
7:00 A.M. – 7:45 A.M.	Leader Breakfast	Level 3, Room 350E
7:30 A.M 5:00 P.M.	Exhibitor Registration	Level 1, Exhibit Hall D
7:30 A.M. – 5:00 P.M.	Delegate Registration	Level 3, Prefunction Area 340/350
7:00 A.M. – 5:00 P.M.	Leader Registration	Level 3, Room 340A
8:00 A.M 8:35 A.M.	Welcome Address	Level 3, Grand Ballroom C
8:45 A.M. – 10:15 A.M.	Symposia Technical Sessions	Level 3
10:15 A.M 10:30 A.M	Break	Level 3, Lounge Area
10:30 A.M 12:00 P.M.	Symposia Technical Sessions	Level 3
11:00 A.M 12:00 P.M.	Lunch for Exhibitors	Level 1, Exhibit Halls C, D, E
12:00 P.M 2:00 P.M.	Lunch & Exhibits Open to Paid Delegates	Level 1, Exhibit Halls C, D, E
1:30 P.M. – 7:00 P.M.	Free Pass Registration and Badge Pickup	Concourse Exhibit Hall D
2:00 P.M 3:30 P.M.	Symposia Technical Sessions	Level 3
2:30 P.M 7:00 P.M.	Exhibits Open Free to Public	Level 1, Exhibit Hall
7:30 P.M 9:00 P.M.	Tex-Mex Buffet (Badges Required, Not Open to Free Pass)	Level 2, Hilton Ballroom of the Americas D

WEDNESDAY, AUGUST 21, 2024		
7:00 A.M. – 8:15 A.M.	Leader Breakfast	Level 3, Room 350E
8:00 A.M 5:00 P.M.	Exhibitor Registration	Level 1, Exhibit Hall D
8:00 A.M 5:00 P.M.	Delegate Registration	Level 3, Prefunction Area 340/350
8:00 A.M 5:00 P.M.	Leader Registration	Level 3, Room 340A
8:00 A.M 5:00 P.M.	Booth Selections for 2025	Level 1, Exhibit Hall D, Exhibitor Registration Counter
8:30 A.M. – 12:00 P.M.	Symposia Technical Sessions	Level 3
10:00 A.M 10:30 A.M	Break	Level 3, Lounge Area
11:00 A.M 12:00 P.M.	Lunch for Exhibitors	Level 1, Exhibit Halls C, D, E
12:00 P.M 1:30 P.M.	Women of TPS Luncheon	Room 350E
12:00 P.M. – 2:00 P.M.	Lunch & Exhibits Open to Paid Delegates	Level 1, Exhibit Halls C, D, E
1:30 P.M. – 6:30 P.M.	Free Pass Registration and Badge Pickup	Concourse Exhibit Hall D
2:00 P.M 3:30 P.M.	Symposia Technical Sessions	Level 3
2:30 P.M 6:30 P.M.	Exhibits Open Free to Public	Level 1, Exhibit Hall
7:30 P.M 9:00 P.M.	Banquet (Badges Required, Not Open to Free Pass)	Level 2, Hilton Ballroom of the Americas D

THURSDAY, AUGUST 22, 2024		
7:30 A.M. – 8:15 A.M.	Leader Breakfast	Level 3, Room 350E
8:00 A.M 11:00 A.M.	Exhibitor Registration	Level 1, Exhibit Hall D
8:00 A.M 11:00 A.M.	Delegate Registration	Level 3, Prefunction Area 340/350
8:00 A.M 11:00 A.M.	Leader Registration	Level 3, Room 340A
8:00 A.M 11:00 A.M.	Booth Selections for 2025	Level 1, Exhibit Hall D, Exhibitor Registration Counter
8:30 A.M. – 12:00 P.M.	Free Pass Registration	Concourse Exhibit Hall D
8:30 A.M 12:00 P.M.	Symposia Technical Sessions	Level 3
10:00 A.M 10:30 A.M.	Break	Level 3, Lounge Area
9:30 A.M 12:00 P.M.	Exhibits Open Free to Public	Level 1, Exhibit Halls C, D, E

HAVE YOU RESERVED YOUR BOOTH FOR TPS 2025?

Visit the Exhibitor Registration Counter in Exhibit Hall D to book your booth before you leave TPS 2024.

WEDNESDAY, 8:00 A.M. - 5:00 P.M. THURSDAY, 8:00 A.M. - 11:00 A.M.



ASME TURBO EXPO 2025

TURBOMACHINERY TECHNICAL CONFERENCE & EXPOSITION

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SAVE THE DATE

June 16 - 20, 2025

Whether you're looking for your next R&D partner or employer, discovering new research ideas, or building your company's brand, ASME Turbo Expo is where the turbomachinery community gathers. Join 2,600+ professionals from around the globe to advance your career and advance the industry.

THE 2023 PROGRAM INCLUDED:

- 2,600+ Attendees
- 1,000+ Technical Presentations, Tutorials and Panels
- 119+ Exhibitors
- Endless Networking Opportunities

The American Society of Mechanical Engineers

ASME







MONDAY, AUGUST 19, 2024		
6:00 P.M. – 9:00 P.M.	Ingersoll Rand	335 A-C

TUESDAY, AUGUST 20, 2024		
7:00 P.M. – 10:00 P.M.	Rotating Machinery Services	335 A-C Reception

INNOVATION PRESENTS SCHEDULI



WEDNESDAY, AUGUST 21, 2024		
3:30 P.M. – 3:50 P.M.	"CO2 Turbine Applications"	Triveni Turbines - Deepak Nayak
4:00 P.M. – 4:20 P.M.	"Digital Solutions for Asset Condition Management"	John Crane - Timothy Reggione

HONORĮNG

DR. DARA CHILDS

Please join us as we celebrate the life of Dr. Dara Childs, former Turbomachinery Laboratory Director, Chair of the Turbomachinery Advisory Committee, and trailblazer.

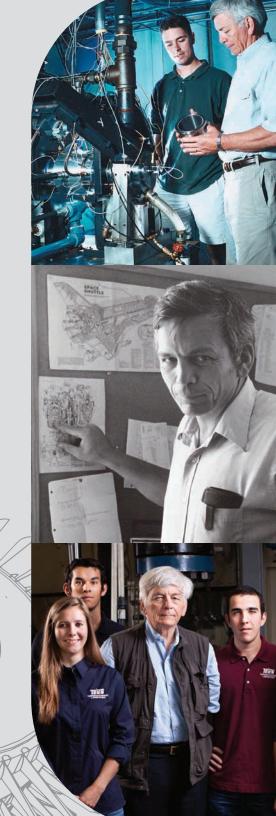
WHERE:

Turbomachinery Alumni Annual Meeting (Level 3, Room 350D)

WHEN:

Tuesday, August 20, 2024 5:30 P.M. – 6:30 P.M.

This event is open to anyone who wishes to attend.



PROGRAM

TPS MOBILE APP

Search for and download the **Texas TPS** mobile app from your favorite app store.

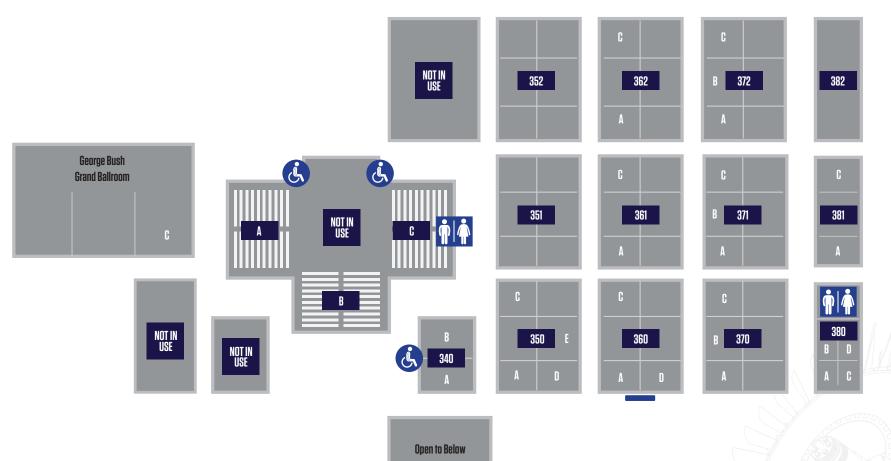
- Search "Turbomachinery and Pump" and select the Texas TPS app from the results.
- 2. Download the app.
- Your username is your registered email, and the password is TURBOPUMP.

Find exhibiting company listings, a map of the exhibit floor, and the full program, plus create your own schedule for TPS 2024.









Open to Below

ADVISORY COMMITTEE MEMBERS

Our Advisory Committees, composed of industry experts, volunteer their time to ensure the success of our technical program at the Turbomachinery and Pump Symposia. We express our sincere thanks to the members of our turbomachinery and pump advisory committees. Their dedication, time, and expertise are crucial in maintaining the high standards of our continuing education courses.

WHO MAKES UP OUR COMMITTEES?

Every individual is a member of the industrial world that either uses, manufactures, or supports the use of turbomachinery and pump systems. Members are typically consultants, contractors, manufacturers, or end-users.



MATERIALS REVIEWED

LECTURES

A lecture is a presentation of a technical paper detailing innovative turbomachinery or reciprocating compressor technology or methodology.

TUTORIALS

A tutorial is a mini workshop presenting a specific technical topic. It is a teaching process directed at the practicing engineer.

CASE STUDIES

A case study is a short informational presentation describing the successful implementation of established technology or methodology to solve a real-world problem.

SHORT COURSES

A short course is a full-day training session presented concurrently with other short courses on the first day of the symposia.



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TURBO ADVISORY COMMITTEE

TPS is sponsored by the Turbomachinery Laboratory of the Texas A&M Engineering Experiment Station, a part of the Texas A&M University System. The Turbo Advisory Committee is composed of engineers from user and manufacturing corporations throughout the U.S. and abroad.

The presenters of Lectures, Tutorials, and Case Studies, as well as the Discussion Group Leaders, are leaders from the fluid-handling-equipment community. The Turbo Advisory Committee is greatly indebted to these individuals for their participation and outstanding contributions.

ADVISORY COMMITTEE



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PUMP ADVISORY COMMITTEE

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Turbomachinery Laboratory



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BRYAN YARNOT ITT Goulds Pumps



VISIT THE PUBLICATION BINS

Visit our publication bins in the Exhibition Hall to view our media partners' publications and learn more about what is happening in the industry.

SEE OUR MEDIA PARTNERS ON PAGE 10 OF THIS SHOW GUIDE







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WEBSITE page impressions per month

WEBSITE page impressions per month

WEBSITE unique visitors

53,500

PT1 - VIBRATION PROBLEMS AND SOLUTIONS IN PUMPS AND TURBOMACHINERY

Instructors: Jason Coppola, Andrew Lerche, Maki Onari (Mechanical Solutions, Inc.)

This course presents analysis and testing methods for pumps and turbomachinery. The focus is on centrifugal pumps of all types, centrifugal compressors, axial compressors, fans, steam turbines, and gas turbines. Rotordynamics and bladed disk vibration are included as modules, as well as a discussion of fluid-induced vibration (e.g. rotating stall and blade pass frequencies), acoustics, and mechanically induced vibration (imbalance misalignment, rubs, looseness). Troubleshooting methods and fixes are discussed with many detailed case histories.

P2 - INTRODUCTION TO PROGNOSTICS AND HEALTH MONITORING

Instructors: Daniel Nelson (Novity), Matt Daigle, Pelin Kurt-Garberson

The targeted audience for this short course is process industry operators, maintenance professionals, and equipment end-users. Attendees will learn the basics of prognostics and health management (PHM), with a focus on how to implement the right solution for their needs, as well as how to maximize value from a predictive maintenance program from a technical standpoint. Different approaches to prognostics will be explored, including data-driven, model-based and hybrid approaches. After completing the course, operators and maintenance stakeholders will understand how to use prognostics to optimize their maintenance programs and minimize the cost associated with unplanned downtime.

P3 - PUMPS 101

Instructors: Dan Wood (Chemours), July Hodgson

This course is aimed at technical professionals who need a broad-based introduction to basic pump selection, application and operation. This course starts with the basics and builds to provide a full understanding of centrifugal, rotary, and reciprocating pumps. The course will include the following topics: centrifugal, rotary and reciprocating pump similarities/differences; centrifugal, rotary and reciprocating pump configurations; nine fundamental principles for

reliable pump operation; understanding pump curves; developing system curves; choosing a type of pump for a specific application. The course will answer the question, "What are the things \(\bar{I} \) need to worry about when selecting, specifying and operating pumps?" At the completion of the course, the attendees will hold a strong understanding of basic concepts. This knowledge will act as a springboard to further develop an understanding of more complex pump concepts. An emphasis is placed on providing useful information with minimal theory and thus, comprehension of the information presented requires little to no mathematical skills in hydraulic or mechanical design.

P4 - MOTOR AND VFD PRINCIPLES WITH VARIABLE SPEED PUMPING CONSIDERATION

Instructors: Tim Albers (Nidec), Jeff Bergman (ABB)

Electric motors are a key driver within a plants rotating machinery applications. Safe and reliable operation, of the electric motor and the components that control them, are key to plant success. With the industry's push for more efficient systems with higher automation, the requirement to use electric motors with VFDs is becoming more popular. This course will educate the participant on the general function, application, installation, maintenance and troubleshooting of the electric motor and VFD as a system. It will also cover the interaction the motor and the VFD have with key turbo machinery applications.

P5 - API 685 SEALLESS CENTRIFUGAL PUMPS FOR PETROLEUM, PETROCHEMICAL, AND GAS INDUSTRY PROCESS SERVICE. LATEST EDITION

Instructors: Jeremy Cooper (Bechtel), Frank Korkowski (Applied Knowledge Consulting)

The course provides an in-depth review of the latest edition of the API 685 standard addressing sealless pumps - both magnetic drive (MDPs) and canned motor (CMPs) - basis the standard published as the 3rd Edition in July 2022. This course is recommended for technical decision makers who deal with pump selection and reliability daily including Project Engineering, Reliability Engineering, Application Engineering, Rotating Equipment Engineering and Procurement. Other business sectors and personnel requiring knowledge or a refresher on fundamentals of sealless centrifugal pumps, design, and operation (as required by API 685) will also find this course helpful. Addressed in detail are: requirements for all sealless pumps, specifics for MDPs, specifics for CMPs, use of the API data sheets, and the numerous Annexes. Though the scope statement in API 685 clearly states that the standard applies to "single stage overhung" pumps, multistage overhung designs are also addressed. TPS will provide a hard copy of the standard as part of the class materials.

P6 - KNOW YOUR SYSTEM CURVES! LEARN ALL ABOUT PUMP CURVES, SYSTEM CURVES, CAVITATION AND RELIABILITY

Instructors: Scott Shults (ITT Goulds)

Pumps operate at the intersection of the pump and system curves, but system curves are often poorly understood. This course focuses on hydraulics and troubleshooting-reading pump curves, developing system curves, and grasping the effect of system curves on pump reliability and flow. It is intended for those who select, use, and/or perform root cause analysis of centrifugal pumps. It is an ideal course for reliability/rotating equipment engineers and applications engineers, from entry level through late career.

- Part 1: Pump Hydraulics mastering pump curves, the significance of the best efficiency point, the link between flow and reliability.
- Part 2: System Hydraulics building a system curve, flat vs steep system curves.
- Part 3: Pump/System interaction parallel/series pump operation, undersized and oversized pumps, cavitation, matching a pump and system.
- Part 4: Special Topics specific speed, calculating NPSHA, affinity laws.

This course draws heavily on field experience and includes numerous examples of how to solve real-life end user reliability problems.

T2 - LATERAL ROTORDYNAMICS OF PETROCHEMICAL EQUIPMENT - REVIEW, EXAMPLES, AND PROBLEMS

Instructors: James Byrne, Hunter Cloud, Minhui He (BRG Machinery Consulting)

This short course, recently updated with several new case studies, will present the basics of rotordynamics and its application to turbomachinery. Shaft stiffness considerations, tilting pad journal bearing influence on stiffness and damping coefficients, influence of support stiffness and labyrinth and honeycomb seal impact on stability are some of the concepts covered. Basic rotordynamic analyses; undamped critical speeds, response to unbalance and rotor stability will be presented and their use in understanding the rotor behavior explained. Case studies showing problem solving using rotordynamic analysis are a key feature. The student should come away from the course with an appreciation for rotordynamic behavior, an ability to interpret rotordynamic predictions and an awareness of when this tool should be applied to ensure operability and reliability of equipment.

T3 - CENTRIFUGAL COMPRESSORS 101

Instructors: Mark Kuzdzal (Fox Innovation & Technology), Syed Fakhri, Ravichandra Srinivasan (Siemens Energy)

This course is aimed at engineers and technical professionals who need a broad-based introduction to centrifugal compressor design and analysis. This course starts with the basics and builds to provide a full understanding of a centrifugal compressor. The course will include the following topics: reciprocating, axial and centrifugal compressor similarities/differences; centrifugal compressor configurations; design consideration; and balancing aerodynamic, rotordynamic, and mechanical consideration. The course will answer the question "How do they work?" and give insights on factory testing and future challenges. At the completion of the course, attendees will hold a strong understanding of basic concepts. This knowledge will act as a springboard to further develop an understanding of more complex centrifugal compressor concepts. An emphasis is placed on providing practical information with minimal theory. This is NOT a centrifugal compressor operations and maintenance class.

T4 - CENTRIFUGAL COMPRESSORS 201

Instructors: Jay Koch (Siemens Energy), Rainer Kurz (Gas Compressor Engineering, RKSBenergy, LLC), Jeff Moore (Southwest Research Institute), James Sorokes (Fox Innovation & Technology)

This course supplements the Centrifugal Compressor 101 course by covering in greater detail four key areas related to compressors: aerodynamics, rotordynamics, performance and mechanical testing, and surge control. It is intended for those who attended the 101 course and wish to learn more about these topics. The course is also structured for those practicing rotating machinery who have a basic understanding of the topics covered in CC101 but wish to further their understanding in these key areas.

- Aerodynamics Compressor design and analysis, CFD and its role,
 Performance Issues, Rotordynamics, Basic vibration theory, Modeling procedures, Bearing and seal analysis, API requirements, Instrumentation used
- Sample vibration phenomena and case studies
- Performance and Mechanical Testing, API 617 and ASME PTC-10 requirements, Instrumentation and test methods, Test gas considerations, Sample testing pitfalls, Aerodynamic case studies
- Surge Controls, "What is Surge?", Surge control system components, Surge control system operation in different scenarios, Modeling of the Surge Control System, Surge Control system design considerations, Integration of compressor and compression system.

T5 - ASME POWER TEST CODE (PTC-10 - 2022) COMPRESSOR PERFORMANCE TESTING

Instructors: Richard Huntington (Oak Hill Turbo and Associates, LLC), Rainer Kurz (Gas Compressor Engineering, RKSBenergy, LLC), Mark Sandberg (Sandberg Turbomachinery Consulting, LLC), Hans Weyermann (HPW Turbomachinery Solutions, LLC)

A revision of the ASME test code for performance testing of centrifugal and axial compressors, ASME PTC-10 - 2022, has recently been released. Culminating a more than six-year effort, this significant revision of the 1997 edition of the code includes a number of modifications and expansion to existing requirements. Major changes that will be addressed include: Determination of thermodynamic properties used in performance calculations. Calculation methods for polytopic head and efficiency, including the relative differences introduced by the various polytropic work computational methods. Reynolds number corrections for test conditions. Treatment of significant internal seal leakages between testing and contract conditions Calculation of performance test result uncertainty. In addition, several other amendments to testing requirements and calculations along with expanded coverage of existing requirements will be discussed in the short course. Several examples that illustrate and differentiate new and existing code directives will be included. This short course is intended to be of interest to both new and experienced engineers involved in the design, selection, acceptance testing and use of centrifugal and axial compressors. Although developed for factory acceptance testing of these compressors, the guidance and requirements provided in the code can be extended to field acceptance and operational performance testing with consideration given to limitations that these alternative situations impose. The course will be instructed by members and major contributors of the PTC-10 - 2022 code committee. The course instructors strongly recommend that attendees obtain a copy of the ASME PTC 10 - 2022 code and have it available during the course for reference. They are aware that many companies subscribe to industrial code and standard supply services which may allow attendees to obtain a copy through their employers. If this benefit is not available to the attendees, they may obtain a pdf or print version of the PTC 10 code through the following link: https://www.techstreet.com/.

T6 - API 618 6TH EDITION RECIPROCATING COMPRESSORS FOR PETROLEUM, CHEMICAL, AND GAS INDUSTRY SERVICES

Instructors: Robert Eisenmann (BP)

This standard covers the minimum requirements for reciprocating compressors and their drivers for use in petroleum, chemical, and gas industry services for handling process air or gas with either lubricated or nonlubricated cylinders. Compressors covered by this standard are low- to moderate-speed machines. Also included are related lubrication systems, controls, instrumentation, intercoolers, aftercoolers, pulsation suppression devices, and other auxiliary equipment. *Per API requirements an additional charge of \$200.00 will be added to this course: API 618 6th Edition Reciprocating Compressors for Petroleum, Chemical, and Gas Industry Services.

T7 - ROOT CAUSE FAILURE ANALYSIS FOR INDUSTRIAL TURBOMACHINERY

Instructors: Justin Hollingsworth, John Macha (Southwest Research Institute), David Ransom (Siemens Energy)

This class covers the formal RCFA process and provides guidance on the various steps needed to investigate failures. A first responder's job includes: observing and recording what is seen, securing all data sources, backing up all data recordings, identifying all personnel on duty, notifying all parties involved, overseeing teardown, and collecting all available evidence. Forming an RCFA team is an important part of the overall process. The team should have ownership of the problem. Defining the problem may require brainstorming and has a strong influence on the quality of an investigation.

T8 - STEAM TURBINE 201

Instructors: Derrick Bauer, Klaus Brun, Adam Neil, Brian Pettinato, Steve Rashid (Elliot Group), Arun Kumar (Mittal Energy Ltd, India)

This class will provide the attendee with an overview of advanced steam turbine design, applications, operation, and maintenance topics. The topics will also cover advanced turbine design practices to optimize steam supply efficiency and how to maintain equipment reliability. The class will cover areas related to the interactions between the multiple critical components of a steam turbine and how to ensure long term operability. The course is intended and structured for those who already have a basic understanding of rotating machinery and wish to further their understanding in key steam turbine technology areas with a primary focus on oil & gas applications.

T9 - BEARINGS FOR OIL-FREE ROTATING MACHINERY

Instructors: Daniel Lubell (Oil Free Machinery), Luis San Andres (Texas A&M University)

The short course provides practicing engineers with a comprehensive review of existing gas bearing technologies including their principle of operation, analysis and experimental verification, comparison amongst other gas bearing types, as well as the integration of gas bearings, foil bearings in particular, into actual rotor-bearing systems (hot and cold). The course also includes an introduction to magnetic bearings and their applications.



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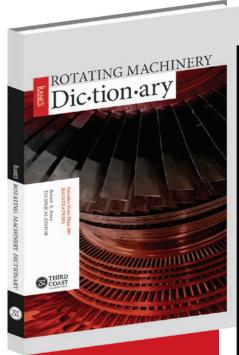
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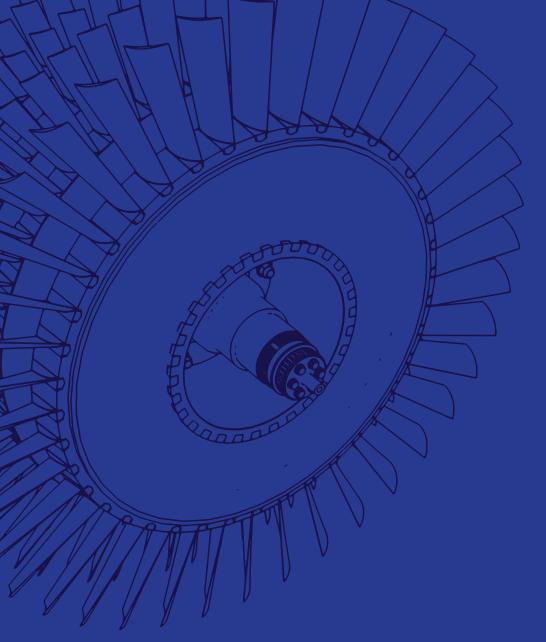


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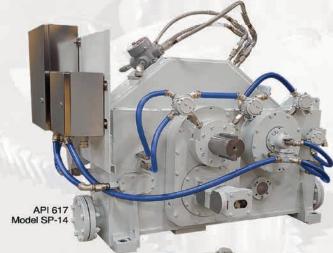
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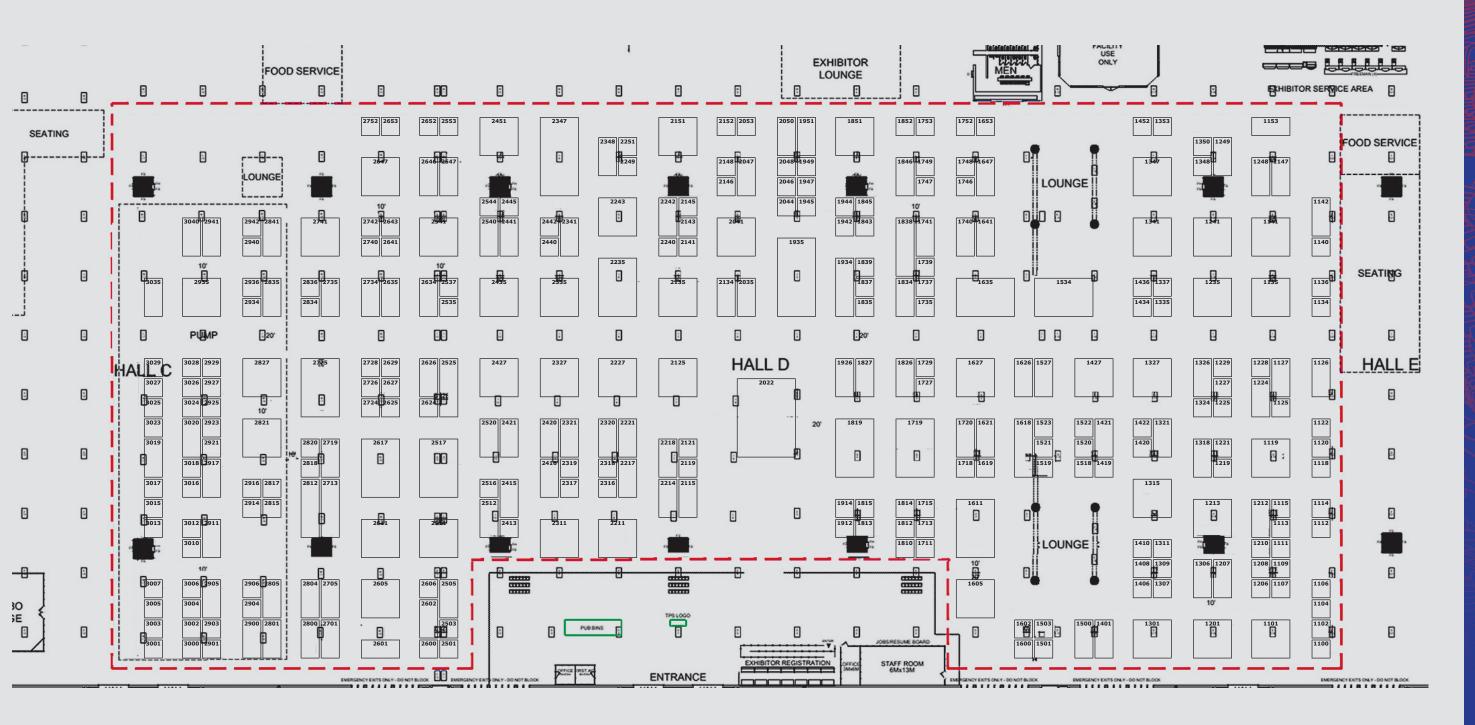


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ADX Machinery is focused on sourcing and supply of rotating equipment like centrifugal compressor, blower, pump and related auxiliaries etc. Our Products including Fan, blower, compressor, and pump for the Metallurgical, Power, Cement and Oil & Gas industry. Thank you for visiting us and wish you a good success.

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PH: (484) 718-3703 FX: (610) 380-0278

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19 Morris Avenue Brooklyn, NY 11205 USA

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a major supplier of pumps for the process industries including the following engineered products. NMB: Close coupled seal-less process pumps. NCR: API 610 PRM: API 685 NMX: Seal-less high temperature pumps especially designed for handling heat transfer fluids with no cooling water required. SCM: Seal-less side channel pumps for low capacities and high differential heads. HZM: Seal-less.

DIGITAL REALITY SCANNING

1136

19165 CR 143 Alvine, TX 77511, USA PH: (832) 518-5670

http://www.digitalrealityscanning.com

Digital Reality Scanning is a 3D scanning service that specializes in the turbine industry. We provide in office and on-site scanning service along with digital data assembly, dimensional inspection, scan to CAD deviations, and reverse engineering of data.

DNOW 3020

14420 Wagg Way Rd Houston, TX 77041 USA PH: (713) 466-9550 http://dnow.com

DNOW is a leading global provider of energy and industrial solutions, products and engineered equipment packages. We provide an extensive selection of Pipe, Valves and Fittings (PVF), MRO supplies, and OEM products to the energy and industrial markets worldwide. We have a network of locations spanning over 20 countries, and our online digital channels give customers easy access to the products they need when they need them.

DOUGLAS ELECTRICAL COMPONENTS

1221

5 Middlebury Blvd. Randolph, NJ 07869 USA PH: (973) 627-8230 https://douglaselectrical.com

Douglas Electrical Components manufactures electrical feedthroughs, seals, and wire bushings for hazardous locations in custom and standard packages. Our

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DRAKE CONTROLS 1135

8731 Fallbrook Drive Houston, TX 77064 USA

PH: 713-996-0190 FX: 713-996-0190

http://www.drakecontrols.com

Drake Controls is one of Woodward's largest channel partners globally. Our company is a Woodward Recognized Turbine Retrofitter for steam and gas turbines. Drake Controls also provides multiple Authorized Woodward Sales & Service Center's in Texas, California and Mexico City to support the Gulf Coast and North America. Our goal at Drake Controls is to provide quality products, solutions and technical services to the Turbomachinery industry and our customers.

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7900 Durand Ave. Sturtevant, WI 53177 USA PH: (262) 505-0311 http://dynamatic.com

DSI/Dynamatic manufactures Dynamatic brand of Eddy Current variable speed drives, clutches, brakes and controls. As an application engineering manufacturer, we offer the most complete line of electromagnetic drives, clutches, brakes, and digital controls, centered on the world-renowned Dynamatic brand. Our broad offering consists of proven Eddy Current variable speed drives and clutches up to 4000HP, Eddy Current air and liquid cooled brakes, CES Constant Energy Digital press drives, Eddy Current controls, and custom control systems. Dynamatic supports complete factory rebuilds on Dynamatic products, backed by a factory warranty.

Laan van Oversteen 20 Rijswijk TX Zuid-Holland 2289 CX Netherlands

PH: 713 412 9733

http://www.dynaflow.com

BOSpulse (www.bospulse.com) is a comprehensive software solution for performing pulsation analyses of piping systems involving reciprocating equipment such as reciprocating compressors (API 618) and reciprocating pumps (API 674). It enables engineers to model both common and custom reciprocating equipment and the attached piping, to perform pulsation analyses, to check the results against the allowable pressure and shaking force amplitudes prescribed by the API standards, and to assess the impact of the shaking forces on the structural response of the piping system.

E

E+A 2440

Bachstrasse 10 Möhlin CA Aargau 4313 Switzerland PH: 925-685-0227 http://www.eandausa.com

e+a makes rotors and stators used to build motors and generators for embedded high-speed, high-power turbo-machinery applications including: machine-tool spindles, micro-turbine generators, waste-water & fuel cell blowers, direct drive gearbox replacements, compressors & turbochargers, chillers, energy storage systems, HVAC compressors, cryo pumps (LNG, LH2 & Ammonia), automotive traction motors and range extenders, concrete cutting, aircraft generators & APU's, flywheel energy storage, etc. e+a rotor/stator sets are Induction and Permanent Magnet motors and generators ranging from a few KW at 500K+ RPM through 1.6MW at 25K RPM. e+a offers both Low Voltage (<1000V) and Medium Voltage devices (3.3kV, 6.6kV..).

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https://www.eagleburgmann.us

2427

EagleBurgmann is a leading international specialist in industrial sealing technology. We combine innovative technologies, digital solutions and our passion to create sophisticated and reliable sealing systems. Our products help make entire industries safer and more sustainable. 5,600 employees create added value for our customers around the world with their enthusiasm and competence. EagleBurgmann is a joint venture between the German Freudenberg Group and the Japanese Eagle Industry Group.

EASTERN ALLOY 2341

1138 Meldon Ave Donora, PA 15033 USA PH: 724-379-5776

FX: 724-379-3540

http://www.easternalloy.com

Eastern Alloy Inc. custom designs and manufactures nitrogen filled shipping and long term storage containers. The protective containers are designed to be stored horizontal and vertical. Equipment shipped and stored include; Rotors, Bundles, Expanders, Gear Sets, Armatures, Couplings, Gear Boxes, Seals, Bearings, Pumps and many other components.

ECOTECH & CP PUMPEN 2725

30601 SGT E I Boots Thomas Dr Spanish Fort, AL 36527 USA PH: (352) 201-8409 https://www.cp-pumps.com/en/

CP Pumpen AG is a highly innovative Swiss manufacturer of high-safety, hermetically sealed and efficient centrifugal pumps/magnetic driven pumps made of stainless steel, special alloys, PFA-lined, solid PTFE or ceramiclined. CP pumps are designed for aggressive, hazardous liquids in chemical, pharmaceutical, petrochemical, biotechnological processes, or for sterile processes in the food and beverage industry. EcoTech is your single source for industrial solutions, specializing in pumps, valves, mechanical seals, automatic lubrication, and more. We are exclusive partners for CP magnetic driven pumps in the US market (TX, LA, MS, AL, GA, FL). Learn more at EcoTechAmerica.com

13482 FM 529 Rd Unit#3 Houston, TX 77041 USA PH: (346) 803-2424

https://www.elincosys.com/

We are a, more than 45-year-old, control system manufacturing company specializing in controls for all types of rotating equipment. We design as well as build all types of control systems in house along with all types of Control Panels for Turbines, Pumps, & Compressor controls. We have shop certification for UL, IECEx, ATEX type panels for Hazardous areas as well as safe area location certifications as per UL, CE, CSA, PESO, EAC/TRCU and can manufacture for other regions also. We are based in Houston Texas, USA with our head office in Ahmedabad, Gujarat, India.

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1819

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https://www.elringklinger-engineered-plastics.com/company/news/

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2905

Empowering Pumps and Equipment is the Information & Connection hub for the Industry. We specialize in digital media marketing, and we help companies just like yours reach their desired audience across a variety of platforms. We connect, inform, and educate the pump & related equipment industries by creating valuable partnerships between manufacturers and their customers. We connect you with our community using digital advertising, social media, and custom digital publications that amplify your message as a thought leader in industry. We also host the Empowering Industry Podcast.

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1315

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http://www.ectpac.com

Energy Control Technologies (ECT) delivers control solutions for turbocompressors, steam turbines, gas turbines, turboexpanders, screw compressors, and reciprocating compressors. Our technology uses Rockwell Automation Allen-Bradley ControlLogix and CompactLogix, Siemens or Honeywell hardware platforms in the Oil & Gas, Industrial/Manufacturing, and Biofuels markets including full duplex and SIL 2 systems. ECT solutions increase energy efficiency and production while improving machine protection. Solutions include: surge control, performance control, quench, loadsharing, steam turbine speed and extraction control, overspeed trip systems, gas turbine fuel control and sequencing, turboexpander control, logic, vibration protection, plant air network control, and simulation services.

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1626

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https://ethosenergy.com/services/field-services

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Flexaseal Engineered Seals and Systems, an American manufacturer founded in 1983, epitomizes innovation in sealing solutions, embodying our ethos: Seals. Systems. Solutions. At Your Speed. Known for engineered mechanical seals, metal bellows, and our patented two-piece split cartridge seal, Flexaseal serves a global clientele in oil and gas, chemical/petrochemical, industrial processing, pulp and paper, and general industries. Our product range spans API and other cartridge seals, split seals, slurry seals, OEM replacements, and seal support systems designed for reliability and value. We take pride in controlling the destiny and speed of your sealing solution from start to finish.

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Since its beginning in 1991, FlexElement has built a reputation for outstanding

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Our FLOWDY company produces components that are made up of the core of steam turbines and gas turbines in Nuclear, Hydro Energy , Thermal Energy and Combined-Cycle Power Plant.

FLOWSERVE CORPORATION

161

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Flowserve Corporation is one of the world's leading providers of fluid motion and control products and services. Operating in more than 55 countries, the company produces a wide variety of engineered and industrial pumps, seals, valves, and

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FS-Elliott is a global leader in the engineering and manufacturing of oil-free, centrifugal compressors with operations in over 90 countries. Building on a 50-year tradition of excellence, FS-Elliott combines an unwavering commitment to quality with the desire for advancing technology to bring value to our customers, allowing them to increase their productivity and lower system operating costs. For more information, please visit www.fs-elliott.com.

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Fusion, Inc. is a coating & grinding facility offering HVOF, electric twin arc wire coating, laser cladding capabilities and is known for quick-turn repairs on rotating and reciprocating components such as turbine rotors, shafts, piston rods, impellers and crankshafts to name a few.

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3018

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With world-renowned engineering expertise in vacuum and heat transfer technology, Graham Corporation is a designer, manufacturer, and global supplier of vacuum pumps, ejectors, vacuum systems, condensers and heat exchangers. Graham has built a reputation (over 80 years) of top-quality, reliable products, and high standards of customer service. Sold either as components or complete systems, the principal markets served are petrochemical, oil refining, & electric power generation industries, including cogeneration and geothermal plants. Graham equipment can be found in diverse applications including metal refining, pulp & paper processing, shipbuilding, desalination, food processing, pharmaceutical, refrigeration, and in HVAC service.

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2841

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2347

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PH: +86-571-89900102 FX: +86-571-89905602 http://www.hbgroups.com

Hangzhou Alkali Pump Co, established in 1958 year, the largest manufacturer and exporter of chemical pumps in China, the pump used for chemical, pulp and paper, salt, sugar, slurry, chlor alkali, caustic soda, acid etc, 60 years advanced technology and experience. Today, we have been supplying more

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HANSFORD SENSORS 1947

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http://www.hansfordsensors.com/us

Hansford Sensors is a leading global manufacturer of industrial vibration monitoring sensors and accessories. We design, develop and manufacture a wide range of high-performance industrial accelerometers, vibration sensors, 4-20mA loop powered transmitters, vibration modules and switches, cable assemblies, industrial enclosures and ancillary equipment. These products can be used in a wide range of industries (from petrochemical, marine and cement to paper, wind and mining). Tough and built to last, our vibration sensors and systems deliver

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1740

580 Westlake Park Blvd, Suite 500 Houston, TX Gyeongsangnam-do 77079 USA PH: +1-281-599-3377 http://www.hanwhapowersystems.com

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3005

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Specialized in customized impeller, pump housing, bowl ,valve body and other pump and valve components in the material of stainless steel, iron. In-house machining and testing. Smooth surface and rich experience do help in improving efficiency. Enameled surface, powder coating, painting are available.

HERMETIC PUMPS INC. 1427

18847 Intercontinental Crossing Drive

Houston, TX 77033 USA PH: 281-443-0905

FX: 281-443-0960

http://www.hermetic-pumpen.com/en

Manufacturer of sealless pumps including canned motor, magnetic drive, and liquid ring vacuum. All canned motor pumps (CMP's) are designed with zero axial and radial thrust (ZART®) and meet or exceed API685 requirements. CMPs are available up to 1,000 HP, operating pressures up to 18,000 psig and temperatures from -200 to 850 degrees F. Available are single and multi-stage pumps in vertical, horizontal, and submersible arrangement. Our superior bearing technology makes our pumps the most reliable and cost effective pump in the market. Lowest cost of ownership.

HFW INDUSTRIES 1436

196 Philadelphia Street Buffalo, NY 14207 USA PH: (716) 875-3380

http://www.hfwindustries.com

HFW Industries manufactures and repairs turbomachinery and related equipment. Services include precision machining and grinding, thermal spray coatings, and hard face weld overlays.

HILCO FILTRATION 2321

100 W. Fourth Street Elmira, NY 14901 USA PH: 607-733-7121

http://www.hilliardcorp.com

HILCO, a division of The Hilliard Corporation, has been engineering and manufacturing filtration systems for Turbo-Machinery Equipment since 1925. HILCO filtration cartridges have superior dirt holding capacity and have continually out performed its competitor's cartridges. Some of the company's systems include Oil Mist Eliminators with an efficiency rating of 99.97% at .03 micron, Lube Oil Conditioners, Duplex/Simplex Filters, Transfer Valves with zero leak pads, Process Equipment, Patented Dry Resin Ion Exchange, Varnish Prevention/Removal equipment as well as Engine Starting systems. HILCO welcomes your most challenging filtration needs.

HITACHI GLOBAL AIR POWER

2235

1 Sullair Way Michigan City, IL 46360 USA

PH: 800-785-5247

http://www.hitachiglobalairpower.com/oilfree

Sullair centrifugal compressors cover a broad range with options in both packaged and custom configurations. The Sullair centrifugal lineup features products delivering up to 118,000 cfm with discharge pressures up to 725 psi. Sullair is a Hitachi Global Air Power brand. Hitachi Global Air Power represents the combined strength of more than 150 years of Hitachi compressor experience around the world.

HOERBIGER COMPRESSION TECHNOLOGY

3350 Gateway Drive Pompano Beach, FL 33069 USA

PH: (954) 974-5700 FX: (954) 974-0964

http://www.hoerbiger.com

THE 53RD TURBOMACHINERY AND 40TH PUMP SYMPOSIA

2211

HOERBIGER Compression Technology (OEM + Service in North America) With more than 125 years of experience, HOERBIGER Compression Technology offers a comprehensive line of industry-leading, reciprocating compressor components, and a wide range of maintenance and repair services to help maximize compressor reliability and performance. HOERBIGER is also driving the green energy transition through innovation, know-how and our broad range of innovative products and services. In the U.S., HOERBIGER's headquarters are in Pompano Beach, Florida and La Porte, Texas, with additional locations in Texas, Louisiana, California, Wyoming, Illinois, and Kansas; ready to help with all your short and longer-term service needs.

HOUSTON DYNAMIC SERVICE, INC.

2134

8150 Lawndale Houston, TX 77012 USA PH: 713-928-6200

FX: 713-928-6200

https://houstondynamic.com

Houston Dynamic Service, Inc, is a privately held corporation and one of the largest independent facilities in the region. HDS has been providing service for over 47 years of the repair of rotating equipment. This includes all types and manufacturers of pumps, compressors, blowers, gearboxes, centrifuges and turbines. HDS can also assist with field service. In addition, HDS is the largest independent provider of seal strip for all types of applications. The HDS complex is located in the Houston Ship Channel area and provides services to petrochemical, refining, power generation, mining and offshore industries.

HPI ENERGY SERVICES LLC

1408

14430 Medical Complex Dr. Suite 100 Tomball, TX 77377 USA PH: (713) 457-7600 FX: (713) 457-7501 http://www.hpienergy.com

We are a global supplier of Turnkey Retrofit Control Systems for high-speed rotating equipment & Gas Turbine related maintenance services to the Energy sector. Our core services include installation/commissioning, on-site repairs, remote monitoring & analysis.

HUN SEN PUMP TECHNOLOGY(HANGZHOU) CO.,LTD

1113

No. 1 Xinghu Road, Huanghu Industrial Zone

Hangzhou Zhejiang 310000 China

PH: 8657187097787 FX: 057187097787

HYDRAULIC INSTITUTE 2916

300 Interpace Parkway Parsipany, NJ 07054 USA PH: 973-267-9700 FX: 973-267-9055 http://www.pumps.org

The Hydraulic Institute serves pump manufacturers, engineering consulting firms, and pump users worldwide by developing and delivering comprehensive industry standards; expanding knowledge by providing education and tools for the effective application, testing, installation, operation, maintenance, and performance optimization of pumps and pumping systems; and by serving as a forum for the exchange of industry information. HI established Pump Systems Matter as its educational annex in providing webinars and courses on the benefits to pump systems optimization and energy efficiency to improve bottomline savings of end-user companies. For more information on HI, visit www. Pumps.org.

HYDRO INC. 2827

3350 Gateway Drive Pompano Beach, FL 33069 USA PH: (954) 974-5700

FX: (954) 974-0964

http://www.hoerbiger.com

Founded in 1969, Hydro Inc operates a global network of service centers that provide engineered repairs and upgrades focused on improving pump reliability and reducing overall life cycle costs. We pride ourselves in our unbiased viewpoint, comprehensive documentation, adherence to high quality standards, and commitment to customer service. Hydro's core business of refurbishment and field service is bolstered by a wide range of services designed to reduce the total cost of equipment ownership by addressing factors that impact availability and performance. Some examples include field testing and troubleshooting, on-demand and in-person skill development, condition monitoring, system optimization, and expedited parts supply.

HY-LOK USA 2705

14211 Westfair West Dr. Houston, TX 77041 USA PH: (832) 634-2000

FX: (832) 634-2099

http://www.hylokusa.com

HY-LOK USA, INC. IS THE AMERICAN MASTER DISTRIBUTOR OF HY-LOK CORPORATION, A GLOBAL INDUSTRY-LEADING PROVIDER OF VALVE AND FITTING SOLUTIONS. Hy-Lok supports a broad inventory of standard and non-standard valves, fittings, semiconductor components and hydraulic presetting tools. Hy-Lok continues to push the envelope with new product development, carefully considering customer specifications like pressure, temperature, fluids, flow rate, environment and budget. We are always happy to answer inquiries for the availability or development of any specific valve or fitting.

ICON 3029

3411 Pasadena Blvd Pasadena, TX 77503 USA PH: (409) 261-4018 http://icon-cnc.com

Icon was started from industry experience in turbo-machinery maintenance and overhauls for petrochem, power, pulp and paper. We inventory, contain, protect and warehouse equipment and special tooling with custom kit boxes, new technologies and materials to prevent corrosion. We offer products and services to streamline specialized parts and tooling for rotating equipment overhauls. We also manufacture custom gaskets and oil flush screens. Our business is equipment component and tooling protection.

IDEAL ELECTRIC COMPANY

1813

330 E 1st St Mansfield, OH 44902 USA PH: (419) 522-3611

111. (413) 322-3011

http://www.theidealelectric.com

Since 1903, IDEAL ELECTRIC COMPANY has become a globally recognized,

leading supplier of high-power, specialty induction, synchronous, wound rotor and permanent magnet electric motors, generators, condensers, switchgear, power systems and controls up to 50 MVA. IDEAL machines are found in every application, are built to the highest specifications and to all standards and environments. Our Genuine IDEAL Re-manufacturing, Parts & Service, along with our heavy manufacturing and large testing capabilities, support our unyielding commitment to quality reflected in every component we supply and proven by thousands of machines operating globally. Protect your investment; always insist on GENUINE IDEAL.

IMC TEST & MEASUREMENT GMBH

3007

Voltastrasse 5 Berlin 13355 Germany PH: +30 467090-26

INDUSTRIAL INFO RESOURCES, INC.

1106

2277 Plaza Drive Suite 300 Sugar Land, TX 77479 USA

PH: 713-783-5147 FX: (713) 266-9306

http://www.industrialinfo.com

Industrial Info Resources is the leading provider of global market intelligence specializing in the industrial process, heavy manufacturing and energy markets. In addition to our Plant & Project Platforms, which provide market intelligence on industrial plants and major capital and maintenance projects throughout the world, IIR offers a range of products providing highly detailed information for thousands of installed and new-build turbines, combustion engines and compressor drives across the U.S. and Canada. Since 1983 we have been helping companies like yours with the most Accurate and timely projects and plant spending intelligence, based on the highest quality-assurance standards in the industry.

INGERSOLL RAND

2435

800-A Beaty Street Davidson, NC 28036 USA PH: (704) 896-4000 http://www.lngersollRand.com



Ingersoll Rand is a global leader in compressed air and gas systems specializing in design, manufacture, optimization and asset management. With a specialty in supplying complete system solutions, Ingersoll Rand offers a broad technology portfolio that includes centrifugal, screw and reciprocating compressors. Knowledgeable company experts conduct full site assessments to understand the customer's operating processes and design the most reliable and efficient solution for each application. Drawing on more than a century of industry experience, Ingersoll Rand has a legacy of helping customers be more competitive within their industries – including those in the petrochemical, air separation, LNG, power generation and general manufacturing sectors.

INNOMOTICS 1500

100 Technology Drive Alpharetta, PA 30005 USA PH: (281) 236-2333

http://www.innomotics.com

Redefining reliable motion for a better tomorrow. Innomotics GmbH is a globally leading supplier of electric motor and large drive system which unites the power of deep engineering expertise and leading innovation in electrical solutions across industries and regions. With its trusted legacy of more than 150 years of engineering expertise, the company has been the backbone of reliable motion for industries and infrastructure worldwide. By combining the company's most efficient products and proven expertise with ground-breaking innovation, Innomotics is persistently scaling up industrial efficiency, electrification, sustainability, decarbonization and digitalization for its customers. www. innomotics.com

INPRO/SEAL 1307

4221 81st Avenue West Rock Island, IL 61201 USA PH: (309) 756-5392 http://www.inpro-seal.com

Inpro/Seal®, the inventor of the Bearing Isolator, is an industry leader in bearing protection and process seals. Inpro/Seal products include the Bearing Isolator, providing permanent bearing protection on pumps, motors and other industrial applications, and the Sentinel® Floating Brush Seal, a drop-in replacement for carbon rings on process steam turbines that significantly extends maintenance intervals. Inpro/Seal technologies increase the reliability of rotating equipment and provide real cost savings by improving the mean time between repair.

Inpro/Seal is part of Dover Precision Components, an integrated provider of performance-critical solutions for rotating and reciprocating machinery.

ISOMAG CORPORATION 2634

11871 Dunlay Avenue Baton Rouge, LA 70809 USA

PH: 225-752-0926 https://isomag.com

Isomag is the technological leader in industrial bearing seal protection. All Isomag bearing seals utilize precision lapped flat face sealing technology to provide a liquid tight seal. By preventing oil contamination, Isomag seals maximize bearing life and improve MTBF. Isomag seals are compact one-piece cartridge designs that are easy to install and will replace most lip seals and labyrinth seals. Seals are available for pump power frames, steam turbines, electric motors, gearboxes, and many other applications. Available in sizes to fit all shaft diameters from 3/4 inch to 13 inch.

ISTEC 1140

Meer en Duin 8 Lisse Zuid-Holland 2163 HA Netherlands PH: +31(0)252 433 400 http://www.istec.com

Istec is expert in the field of measuring, monitoring and protecting speed and vibration on industrial rotating equipment. We support customers with machine protection and monitoring solutions that suit an increasingly demanding environment; to maximize machine availability and safety while unlocking new machine insights and maintenance

ITT INC. 2935

240 Fall Street Seneca Falls, NY 13148 USA PH: 315-568-2811 http://www.gouldspumps.com

ITT Industrial Process (IP) is a dynamic business expanding on a global scale. Headquartered in Seneca Falls, New York, IP offers a portfolio of world-leading brands in industrial pumps, valves and monitoring and control equipment,

offshore water treatment systems, and plant optimization and efficiency systems, as well as aftermarket services and parts.

JOHN CRANE 1934

3200 Wilcrest, Suite 325 Houston, TX 77042 USA PH: (214) 608-2320 http://www.johncrane.com

John Crane is a global leader in mission-critical technologies for the energy and process industries and an innovator in rotating equipment, encompassing mechanical seals, couplings, filtration systems and cutting-edge asset management and digital diagnostics solutions. Blending a rich legacy of innovation with a commitment to service excellence, we've enabled our customer's reliable and sustainable operations for over a century. While recognizing the role of traditional energy, we are pioneering solutions that enable cleaner alternatives, crafting a vision for a sustainable energy future. Our extensive global presence underscores our promise to customers, with over 200 service centers in 50 countries.



KAYDON RING & SEAL. INC.

2143

20 Industrial Dr. Hanover, PA 17331 USA PH: (717) 633-7300 http://www.kaydonringandseal.com

Kaydon Ring & Seal manufactures main shaft seals for centrifugal and oil free screw compressors in hydrocarbon gas applications. The product line includes low leakage Mechanical Oil Seals, dry running Multi-Ring Circumferential seals, Dry Gas Seals, and Circumferential Barrier Seals. We are your lifecycle partner - optimizing initial seal selections and configurations, improving reliability of existing installations, and supporting service and repair needs over the life of your machinery installation.

KELM ENGINEERING, LLC

1518

13711 Banks View Ct Houston, TX 77059 USA

PH: 281-993-3717

http://www.kelmengineering.com

Kelm Engineering was formed in 1999. Its approach to solving equipment problems is to use a mixture of analytical modeling and field and/or shop testing to validate computer simulations and verify the effectiveness of solutions. Although the company is based in the Greater Houston area, Kelm's projects continue to be located around the nation and the globe.

KENNAMETAL 1837

525 William Penn Place Suite 3300 Pittsburgh, PA 15219 USA PH: (833) 379-1506 http://www.kennametal.com

Kennametal is a global supplier of solutions for wear, heat, and corrosion problems, a world-class manufacturer of components, and a service provider to a wide range of industries. By matching our advanced material solutions and technologies to your applications, we can help you solve your biggest wear problems, avoid costly downtime and catastrophic failures, and achieve significant savings. We are the wear problem experts.

KIMURA FOUNDRY AMERICA

1600

789 W Boomer Way Shelbyville, IN 46176 USA PH: (317) 604-3490

Kimura Foundry America provides ferrous and aluminum castings added value for all rapid prototype castings with the shortest delivery times and a high value of service to meet the specific production requirements of any application.

KINGSBURY, INC. 2335

10385 Drummond Road Philadelphia, PA 19154 USA

PH: (540) 389-3375 FX: 215-824-4999

http://www.kingsbury.com

Kingsbury, in business since 1912, is the first and leading manufacturer of fluid-film thrust and journal bearings. Our products are used in a wide variety of turbo machinery, including steam and gas turbines, compressors, gearboxes and pumps, with shaft sizes ranging from 25 to 1400 mm, and sliding velocities up to 130 m/sec. Please visit www.kingsbury.com for more details.

KNIGHTHAWK ENGINEERING, INC.

2146

17625 El Camino Real Suite 412 Houston, TX 77058 USA

PH: 281-282-9200 FX: 2812829333

http://www.knighthawk.com

KnightHawk Engineering is a technology-based specialty engineering company that performs consulting, field services, metallurgical and materials analyses, customized testing and product design and implementation worldwide. For over 30 years now, KnightHawk has been providing Engineering Solutions to solve some of the most challenging and difficult problems in industry. Our success lies in our multi-discipline integrated systems approach to problem-solving. At KnightHawk, we start by defining the fundamental physics of the problem, then look at the Process, Mechanical, Controls Systems, Field Services and Material Interaction. KHE is available 24/7 to respond to your critical equipment failures, plant emergencies and testing needs.

KOBELCO COMPRESSORS AMERICA, INC.

1618

1415 Louisiana St. Suite 4111 Houston, TX 77002 USA

PH: 713-655-0015 FX: 713-982-8450

http://www.kobelcocompressors.com/

Kobelco Compressors America, Inc. began manufacturing compressors in 1915 and today is a global leader in compressor technology, engineering, and innovation. Kobelco designs, manufactures, and packages Screw (API619), Reciprocating (API618), and Centrifugal (API617) compressors for virtually any process gas application. Each system is custom engineered for optimum performance and outstanding return on investment. Through innovative technology and quality manufacturing, Kobelco offers solutions to boost productivity, reduce operating costs, and safeguard the environment. Visit us to speak with our compressor experts and learn more about our custom engineered compression solutions.

KONGSBERG MARITIME INC.

1748

145 James Drive East St Rose, LA 70087 USA PH: (504) 712-2799

https://www.kongsberg.com/maritime/products/engines-engine-room-and-automation-systems/Machinery-Instrumentation/

KONGSBERG Engine Monitoring Systems consist of bearing monitoring components covering Bearing Wear, Water in Oil, Temperature of all bearings and additional measuring points such as Cylinder liner and exhaust gas temperature.

KRAFT WERKS ENGINEERING

1737

935 Heritage Drive Medina, OH 44256 USA PH: (330) 721-7374

http://www.kraftwerkseng.com

Kraft Werks Group, based in Medina, OH, is a manufacturer of equipment serving a broad range of markets including Oil & Gas, Petrochemical, and Power industries. Our various products include Gyrol brand fluid drives, TLT Ash Handling Systems, and Kraft Werks brand machinery. Kraft Werks is the North American representative for SETCON brand of electromechanical variable speed gearbox. The combination of Gyrol with SETCON offer a broad range of variable speed solutions for electric motor driven rotating equipment. Kraft Werks has over 100,000 sqft of manufacturing space that performs heavy fabrication, vertical & horizontal turning, dynamic balancing and assembly

KRAL-USA, INC. 3028

901A Matthews-Mint Hill Road Matthews, NC 28105 USA

PH: 704-814-6164

https://www.kral-usa.com/

KRAL is a leading manufacturer of screw pumps and flowmeters with innovative solutions to meet industry demands. A wide portfolio including API pumps and custom engineered solutions help to assure a competitive edge for our customers within their area of business. We look far beyond our own product offerings to gain full understanding of the customer's requirements, applications and strategic plans. Professional customer service is affirmed with a certified QM system in compliance with EN ISO 9001:2015. After the purchase, a reliable and fast service team is there for you with product support.

KRISHNAVENI CARBON PRODUCTS PVT LTD

2601

63/3 Athipalayam Road, Chinnavedampatti Post Coimbatore Tamil Nadu 641049 India PH: (+)914227109966 http://www.krishcarbon.com

Our products cater to various sector from Pump to Valves, Aeronautical to Railways, Industrial boilers to Steam turbines, White goods industry to printing solutions with a variable carbon grade to suit industry specific requirement. Our infrastructure boasts of fully automated PTS carbon plant installed with latest of CNC machineries and multiple impregnation plant (Resin/ Metal). We are fully equipped with an in-house designed test rig for our design validation.

KRMEA 1752

1st floor,Bethel Bldg,Yangjae-dong Seocho-ku Seoul, 06779, Seoul, South Korea

PH: (+)8225796271 FX: (+)8225796273

http://www.krmea.or.kr

KRMS is an international symposium for the sharing of relevant information of field experience skills, exchanges of developing technologies, development of skills to produce opportunities to cooperate with attending 'Rotating Machinery' field experts. Over 300 experts of the industry from all corners of the world are expected to converge for the Korea Rotating Machinery Symposium on the

third Thursday and Friday of November every year. The event is renowned for boosting engineering abilities and skills in the field of the rotating machinery industry, making contributions to improve the equipment, operation and maintenance of rotating machinery.

KSB SUPREMESERV 2821

PO Box 969 Port Arthur, GA 77641 USA

PH: 409-983-3201 FX: 409-983-7837

http://www.standardalloys.com

Standard Alloys Inc., a KSB Company, is a full service solution provider offering replacement parts, repair and complete pump assemblies. Our factory and three repair centers are certified ISO-9001:2015 by DNV. Our services include custom engineered solutions designed by our engineering staff. These designs are supported with our in-house pattern shop, foundry and machine shop. We have the ability to pour over 300 alloys as well as develop custom alloys to fit your application. Parts manufactured at our Port Arthur, Texas foundry are supported by our extensive machine shop, which allows us to offer quick deliveries.

KULITE SEMICONDUCTOR PRODUCTS, INC.

2318

One Willow Tree Road Leonia, NJ 7605 USA PH: 201-461-0900 http://www.kulite.com

Kulite is the World's recognized Leader in the science and engineering of piezoresistive sensors and holds more than 340 patents in this area. ISO 9001 Certified, Kulite manufactures all welded, high pressure, intrinsically safe, current output, voltage out, pressure transducers for resource exploration including submersible, downhole and towed array.

L.A. TURBINE

28557 Industry Drive Valencia, CA 91355 USA PH: (661) 294-8290

FX: 1-888-674-6503

http://www.laturbine.com





1207

L.A. Turbine (LAT), a Chart Industries company, provides custom turboexpander design, manufacturing and testing of application-specific, highly engineered turboexpanders used in hydrocarbon processing, geothermal power generation, industrial power recovery and cryogenic applications. LAT's ARES AMB remains the industry's first turboexpander-compressor with a skid-mounted AMB controller and PLC, certified for hazardous area installation. LAT also provides aftermarket field service, equipment repair, redesign and spare parts for LAT and non-OEM turboexpander brands. LAT's FX-TURBO team provides diagnostic, maintenance and consultative support 24/7/365 onsite and remotely via +1-855-398-8726. LAT is headquartered in Valencia, CA.

LEISTRITZ ADVANCED TECHNOLOGIES CORP.

2835

165 Chestnut Street Allendale, NI 7401 USA

PH: 201-934-8262 FX: 201-934-8266

http://www.leistritzcorp.com

Leistritz manufactures Screw Pumps for the process, oil and gas, power generation and transportation industries. A complete line of two, three, five and multiphase screw pumps handle flow rates to 15,000 gpm and differential pressures to 2,100 psi. Leistritz has the expertise to deliver packages requiring custom engineered solutions.

LINCOLN ELECTRIC ADDITIVE SOLUTIONS

2547

26250 Bluestone Blvd Euclid, OH 44132 USA PH: (216) 383-4414

https://additive.lincolnelectric.com

3D metal printing factory for large turbomachinery and pump parts. Lincoln Electric Additive Solutions is a 24 hours-a-day/7 days-a-week manufacturing services provider of large 3D printed metal parts. It is vertically integrated, manufacturing its own power sources, wire feedstock, automation equipment and even the slicing and path planning software, SculptPrint™ OS, ensuring delivery of high-quality parts. Additive Solutions delivers as-printed and finished parts from a variety of industrial metals, including steels, stainless steels, and nickel alloys. For more information about Lincoln Electric and its products and services, visit the Company's website at https://www.lincolnelectric.com

LONE STAR BLOWER AND COMPRESSOR

1141

8883 West Monroe Houston, TX 77061 USA

PH: 832-532-3112 FX: 832-532-3115

http://www.lonestarblower.com

Lone Star Blower & Compressor is a manufacturer, packager, & service company of centrifugal, geared, gearless, & multistage blowers & compressors, along with complete control systems. Our representatives are located throughout North/South America & beyond.Industries served include Water/Wastewater, Power, Petro-Chemical, Oil/Gas, Food/Beverage, Mining, & other industries using low pressure compressed air or gas in pressure or vacuum applications. Products offered include gear driven single-stage blowers with variable inlet & discharge guide vanes, gearless (high speed) blowers, & vertically split multistage blower technologies.Our Aftermarket Services takes care of the blowers & compressors you already have by offering complete support & services.

LONE STAR TURBO AFTERMARKET SERVICES

1141

8883 West Monroe Road Houston, TX 77061, USA https://lonestarturbo.com/

Lone Star's Aftermarket Services completely reinvents customer expectations on competing brand blowers and compressors as well as our own. More than just service, Lone Star manufactures all parts, as well as provides more products and services than all the original equipment manufacturers (OEM). Lone Star offers Aftermarket Parts, Rentals, Overhauls, Remanufactured Replacements, Performance and Mechanical Testing, Re-Rates - Change Performance, Factory and Field Service/Contracts, Control Service and Upgrades, Remote Monitoring, Service Maintenance and Training, and more! Call or email us today for a quote.

LUBE-POWER, INC. 2927

50146 Utica Drive Shelby Township, MI 48315 USA

PH: 586-247-6500 FX: 586-247-6510

http://www.lubepower.com

Established in 1979, Lube-Power is a world-class supplier of engineer-to-order lube, seal and control oil consoles for rotating equipment manufacturers. Lube-Power also provides exceptional aftermarket service and support for our equipment, or manufacturer's equipment.

LUDECA, INC. 2421

1425 NW 88th Avenue Doral, FL 33172 USA PH: 305-591-8935 FX: 305-591-1537

http://www.ludeca.com

Predictive and Proactive Maintenance Solutions including laser shaft and pulley alignment, bore alignment, straightness and flatness measurement, monitoring of thermal growth, online condition monitoring, vibration analysis, balancing, induction heaters and ultrasound testing equipment as well as related software, rentals, services and training.

LONE STAR BLOWER AND COMPRESSOR

1141

8883 West Monroe Houston, TX 77061 USA PH: 832-532-3112

FX: 832-532-3115

http://www.lonestarblower.com

Lone Star Blower & Compressor is a manufacturer, packager, & service company of centrifugal, geared, gearless, & multistage blowers & compressors, along with complete control systems. Our representatives are located throughout North/South America & beyond.Industries served include Water/Wastewater, Power, Petro-Chemical, Oil/Gas, Food/Beverage, Mining, & other industries using low pressure compressed air or gas in pressure or vacuum applications. Products offered include gear driven single-stage blowers with variable inlet & discharge guide vanes, gearless (high speed) blowers, & vertically split multistage blower

technologies.Our Aftermarket Services takes care of the blowers & compressors you already have by offering complete support & services.

LONE STAR TURBO AFTERMARKET SERVICES

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8883 West Monroe Road Houston, TX 77061, USA https://lonestarturbo.com/

Lone Star's Aftermarket Services completely reinvents customer expectations on competing brand blowers and compressors as well as our own. More than just service, Lone Star manufactures all parts, as well as provides more products and services than all the original equipment manufacturers (OEM). Lone Star offers Aftermarket Parts, Rentals, Overhauls, Remanufactured Replacements, Performance and Mechanical Testing, Re-Rates - Change Performance, Factory and Field Service/Contracts, Control Service and Upgrades, Remote Monitoring, Service Maintenance and Training, and more! Call or email us today for a quote.

LUBE-POWER, INC. 2927

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http://www.lubepower.com

Established in 1979, Lube-Power is a world-class supplier of engineer-to-order lube, seal and control oil consoles for rotating equipment manufacturers. Lube-Power also provides exceptional aftermarket service and support for our equipment, or manufacturer's equipment.

LUDECA, INC. 2421

1425 NW 88th Avenue Doral, FL 33172 USA PH: 305-591-8935 FX: 305-591-1537

http://www.ludeca.com

Predictive and Proactive Maintenance Solutions including laser shaft and pulley alignment, bore alignment, straightness and flatness measurement, monitoring

of thermal growth, online condition monitoring, vibration analysis, balancing, induction heaters and ultrasound testing equipment as well as related software, rentals, services and training.



MACHINE SAVER INC 1326

9788 Clarewood Dr Suite 302 Houston, TX 77036 USA PH: 832-581-9908 https://Machinesaver.com

MACHINE SAVER'S IoT wireless and wired machine protection and condition monitoring solutions. We supply automated machine conditioning monitoring software. Our 3 axis and proximity probe sensors are intelligent wire less triaxial vibration and temperature sensors (VTBNet). Our low cost solution moves data and not people. Our unique products, software and service reduce total cost of ownership thru simplified installation, lowered cost of maintenance, carefree data maintenance and auto analysis. Our goal is to provide our customers a low cost total machine advanced warning and protection solution for pumps, motors, fans, blowers, gearboxes and compressors by providing unique products, software and exceptional services. www.machinesaver.com

MACHINERY MAINTENANCE REBUILDERS, INC

2501

6927 Brittmoore rd Houston, TX 77041 USA PH: (713) 937-3800 FX: (713) 937-3805

MACHVIB SERVICES CORPORATION

8866 Gulf Fwy Ste 520 Houston, TX 77017 USA PH: (832) 569-4426





2046

MachVib Services Corporation is a vibration service company created to fill the needs for quality vibration monitoring services at a reasonable rate. Need an OEM replacement part but can't get it due to long lead times? Our partnership

with various vendors allows us to provide access to replacement parts on demand. We are an independent vibration service company, therefore we can recommend the best possible solution for your vibration monitoring needs. At Machvib customer services is not a department, IT'S THE ENTIRE COMPANY!

MAN ENERGY SOLUTIONS SE

1341

1758 Twinwood Pkwy Brookshire, TX 77423 USA PH: +1 713-780-4200 http://www.man-es.com

MAN Energy Solutions enables its customers to achieve sustainable value creation in the transition towards a carbon neutral future. Leading the way in advanced engineering for more than 250 years, we provide a unique portfolio of technologies. In Houston, our Brookshire, Texas workshop includes a 100,000 sqft service center with laser welding bay and in-house engineering support. Headquartered in Germany, MAN Energy Solutions employs some 14,000 people at over 120 sites globally. Our Omnicare capabilities offer repair solutions for third party rotating equipment including centrifugal and axial compressors, screw compressors, expanders, steam turbines, and more.

MAUDLIN PRODUCTS 1727

1929 Hwy 146 Kemah, TX 77565 USA PH: 281-334-7566 http://www.maudlinproducts.com

Maudlin & Son Mfg offers full custom job shop capabilities including 5-axis water jet, metal stamping, wire EDM, laser cutting, and custom shims made to your specifications. Maudlin & Son is now manufacturing aftermarket Gas Turbine Repair components. These components consist of picture frame Wear Strips and Impingement Sleeve Zippers used for repairs on transition pieces. Maudlin Products offers a full product line of slotted shims, coil shim stock, stainless steel Tool Wrap, feeler gage, key stock, drill rod, and threaded rod. Mauldin's Cantilevered Spring line includes the most standards in the industry, as well as the largest inventory of on-hand material.

10810 Train Ct Houston, TX 77041 USA PH: (832) 547-2320

http://mayekawa.com/americas/mna

With over 120,000 compressors delivered, Mayekawa has paved its way into various industries from Chemical, Oil & Gas, Petrochemical, and Turbomachinery. For almost a century, Mayekawa has been dedicated to improving its delivery of solutions by building a worldwide network. Through this dedication and contribution to the customer and the market, Mayekawa's own "MYCOM" brand compressor has grown to become one of the most renowned brand of compressors in the world. MYCOM compressors have been serving Oil & Gas and Chemical markets for various applications, from standard packages to custom design-build packages that must meet rigorous quality and performance requirements.

MCNALLY-LLC 3006

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2834

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2726

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http://www.meridianequipment.com

MAN Energy Solutions enables its customers to achieve sustainable value creation in the transition towards a carbon neutral future. Leading the way in advanced engineering for more than 250 years, we provide a unique portfolio of technologies. In Houston, our Brookshire, Texas workshop includes a 100,000 sqft service center with laser welding bay and in-house engineering support. Headquartered in Germany, MAN Energy Solutions employs some 14,000 people at over 120 sites globally. Our Omnicare capabilities offer repair solutions for third party rotating equipment including centrifugal and axial compressors, screw compressors, expanders, steam turbines, and more.

METCAR

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2135 METRIX VIBRATION

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PH: (281) 940-1802

https://www.metrixvibration.com/

Metrix Vibration, a leader in the condition monitoring & asset protection industry is the preferred supplier of vibration monitoring systems to many of the world's leading manufacturers and users of cooling towers, gas turbines, generators, pumps, motors, fans, reciprocating compressors, and other rotating machinery. With headquarters in Houston, Texas, Metrix operates in more than 40 countries via factory direct sales and with a strategic network of instrumentation partners. Metrix invented the technology of simple, affordable machinery protection with our vibration switch offerings, revolutionary 4-20mA vibration transmitters, robust high-temperature velocity sensors, and innovation impact transmitter technology. We look forward to working with our customers to provide the best solution to meet their requirements.

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1119

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PH: 713-943-9100 FX: (713) 943-1610

https://www.miba.com/en/product-areas/industrial-bearings

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1627

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http://www.mhicompressor.com/en

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MOBIUS INSTITUTE NORTH AMERICA

2901

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FX: (608) 364-8816

http://www.regalrexnord.com

At Regal Rexnord, we create a better tomorrow for turbomachinery and pumps with sustainable solutions that power, transmit, and control motion. Our Ameridrives® Ameriflex® and Kop-Flex® high-performance diaphragm couplings, Bibby® Turboflex®, Kop-Flex®, and Rexnord® Euroflex™ high-performance disc couplings, and Rexnord Thomas® general-purpose disc couplings are trusted for general purpose, ANSI, API-610, and API-671 applications. Regal Rexnord also supports the industry with our Coupling Recertification Program, in which our technicians, sales teams, and engineers work together to inspect, tear down, quote, and repair your high-performance couplings.

REINHART & ASSOCIATES, INC.

2317

13419A Immanuel Rd. Pflugerville, TX 78660 USA

PH: 512-834-8911 FX: 512-834-1266

http://www.reinhartassoc.com

Over the past 43 years Reinhart & Associates, Inc. (R&A) has provided independent inspections and remaining lifetime analysis services of gas and steam turbine units at power plants around the world. These inspections have used state-of-the-art nondestructive evaluation (NDE) techniques and equipment to obtain data to determine the integrity and remaining life of major turbine components including rotors, blading, retaining rings, etc. R&A has also provided the first NDE method or equipment available in the industry: first in-place remote video/eddy current NDE of L-1 turbine blades; and first independent NDE and life assessment of small bore generator rotors.

RELIABLE EDM 2240

6940 Fulton Houston, TX 77022 USA

PH: 713-692-5454 FX: 713-692-2466

http://www.ReliableEDM.com

EDM Service. We provide Wire, Ram, and Small hole EDM for production orders large and small. Large parts and High Quantities are our specialty. We have locations in Houston and Broussard, LA. Around the clock Emergency Orders are welcome! We have over 95 EDM machines in operation. EDM questions? www. reliableedm.com

RENK GMBH 2541

Goegginger Strasse 73 Augsburg Bavaria 86159 Germany PH: +49 821 5700 0 http://www.renk.com

RENK – Trusted Partner The RENK Group is a global technology leader focusing on the development and manufacture of complex drive and transmission systems, hybrid drive systems, suspension systems, plain bearings, couplings and test systems. Industrial gear units and compressor or pump drives from the RENK Group are used in power generation plants as well as in the petrochemical industry, raw material refining or in steel mills and mining. Whether high torques in the steel and cement sector or high speeds in oil, gas or new energy: RENK solutions are built for the reliable and precise control of large forces.

REXA, INC. 1838

4 Manley Street West Bridgewater, MA 02379 USA PH: (860) 917-8382 https://www.rexa.com/

At REXA, our mission is to improve process efficiency, safety and reliability through the delivery of high-performance position control products and services for industrial automation. Customers rely on REXA Electraulic™ Actuation where process uptime, throughput and plant safety are top concerns. We provide customer-specific actuator configurations to meet the most challenging application demands. Our actuators and drives deliver unparalleled performance

and reliability without a costly and time-consuming maintenance routine. We continuously improve aspects of our business to provide the best value for our customers and shareholders, while being a responsible member of the communities in which we live and work.

RIVERHAWK COMPANY 2035

215 Clinton Road New Hartford, NY 13413 USA

PH: 315-768-4855 FX: 315-768-4941

http://www.riverhawk.com

Riverhawk Company is a custom design engineering and manufacturing firm with over 400 years of engineering experience. Riverhawk core products originate from designs developed to solve specific customer issues when standard products could not meet the demand. Riverhawk engineered solutions have focused on fastening systems, rotational power transmission issues and shaft solutions across several industries. Riverhawk provides solutions to daily problems that most of the competition wouldn't even consider.

ROC CARBON COMPANY

1810

1605 Brittmoore Road Houston, TX 77043-3107 USA

PH: 713-468-7744 FX: 713-465-2158

https://www.roccarbon.com

ROC manufactures CARBON/GRAPHITE, metal, PTFE, PEEK, custom-seals, (segmented, labyrinth etc), Carbon seal faces for Mechanical seals, Bearings, and high-compression wear parts for Compressors, Turbines, Centrifugal pumps, Industrial Fans, Blowers. ROC manufactures Graphite Plates for a variety of industries as well.ROC supplies parts to OEMs, industrial repair companies, end-users (refineries, petrochemical, power plants). ROC's engineering support includes capability to design/modify seals, meeting individual customers sealing application. ROC OFFERS SAME DAY/ NEXT DAY DELIVERIES depending on the complexity of the parts. COME VISIT us on our WEBSITE: WWW.roccarbon.com ISO 9001:2015.

ROTATING EQUIPMENT REPAIR

7721 Thomson Street Pearland, TX 77581 USA

PH: 281-485-2400 FX: 281-485-2406

http://www.specialtyrer.com





Specialty Rotating Equipment Repair, Inc., DBA Rotating Equipment Repair provides comprehensive repair, refurbishment, and maintenance on rotating equipment to the petrochemical and refining industry of the Houston and entire Gulf Coast area, as well as Oklahoma, New Mexico and Kansas. RER has become one of the primary non-OEM providers of turbine and pump repair, while offering trustworthy, reliable and efficient solutions to problems on all types of rotating equipment.

ROTATING MACHINERY SERVICES, INC.

2041

2760 Baglyos Circle Bethlehem, PA 18020 USA

PH: 484-821-0702 FX: 484-821-0710

http://www.RotatingMachinery.com

Rotating Machinery Services (RMS) was established in 1998 with the vision to reinvent the concept of an aftermarket turbomachinery business. The goal was to provide Turbomachinery operators with unparalleled service based on established relationships, solid engineering and technical expertise—all backed by responsiveness in competitive prices and lead times. RMS Specializes in: • Axial & Centrifugal compressors • Gas, Steam, & Power turbines • FCC & Nitric acid expanders RMS is your OEM provider for AC Compressor axial, centrifugal, and oil free screw compressors as well as CONMEC axial and centrifugal compressors. Visit rotatingmachinery.com to learn more.

ROTH PUMP COMPANY 2929

P.O. Box 4328

Rock Island, IL 61204-4328 USA

PH: 309-787-1791 FX: 309-787-5142

https://www.rothpump.com/

ROTH PUMP is the leading developer and manufacturer of LOW NPSH regenerative turbine pumps. For over 90 years Roth has been handling high head (up to 2300 feet/700 M TDH), low flow (up to 150 GPM/34 M3/H) boiling point liquids. Use of Roth ONE FOOT /0.30 METER LOW NPSH pumps, significantly reduces required tank height which lowers design and construction costs. Roth Pump boiler feed, condensate return systems handle water at 212°F/100°C, 250°F/121°C, 350°F/177°C and 400°F/204°C, which result in substantial energy savings.

ROTOFLOW. AN AIR PRODUCTS BUSINESS

2242

2320 Highland Avenue Bethlehem, TX 18020 USA PH: (610) 481-6035 http://www.rotoflow.com

As a turbomachinery company blended with world-leading industrial gas operating expertise, Rotoflow is able to draw on decades of experience and operational know-how to design, build, and support mission-critical turbomachinery to the hydrocarbon, LNG, and industrial gas markets – helping customers across the globe reach their unique technology and performance targets more efficiently and reliably than ever before. Solution Centers in Houston, Texas; Dhahran, Kingdom of Saudi Arabia and Shanghai, China with field service engineers and technicians strategically located around the world.

ROYAL PURPLE (CALUMET SPECIALTY PRODUCTS)

2800

1 Royal Purple Lane Porter, IN 77365 USA PH: 281-354-8600 http://www.royalpurple.com

Royal Purple manufactures high performance lubricants for most automotive, industrial, marine, motorcycle and racing applications. It is considered the best synthetic oil by many end users. Royal Purple synthetic oil and synthetic lubricants are formulated to maximize performance in real world applications.

RUTHMAN COMPANIES PUMPS

2805

7236 Tyler's Corner Drive West Chester, OH 45069 USA

PH: (513) 559-1901

http://www.RuthmanCompanies.com

Ruthman Companies is family owned and operated and has been custom manufacturing a wide range of pump types for over 100 years. Its highly recognizable brand portfolio includes Gusher Pumps, Process Systems and Deming VTP pumps, Nagle Pumps, RAE Pumps, BSM Pumps, and Fulflo valves. Applications range from automotive paint, to NSF-certified clean water to abrasive slurry and high temp environments. In addition to offering a wide range of in-stock pumps, we custom build to your specifications, assist you with installation, and provide service for the life of your pump.

S

SAMCO ENTERPRISES 1501

16115 Aldene Westfield Houston, TX 77032 USA PH: (281) 690-3730

SCHNEIDER ELECTRIC 2121

17146 Feathercraft Lane Webster, TX 77598 USA PH: 281-709-1253 https://www.se.com/tmc

Schneider Electric is the global specialist in energy management and automation. With revenues of ~€36 billion in FY2023, our 160,000+ employees serve customers in over 100 countries, helping them to manage their energy and process in ways that are safe, reliable, efficient and sustainable. From the simplest of switches to complex operational systems, our technology, software and services improve the way our customers manage and automate their operations. Our connected technologies reshape industries, transform cities and enrich lives. At Schneider Electric, we call this Life Is On.

SCHUNK GMBH 2914

W146 N9300 Held Drive Menomonee Falls, WI 53051 USA

PH: +1 262 2 53 87 20

https://www.schunk-carbontechnology.com/

As a globally active technology group, Schunk is a leading supplier of products made of high-tech materials – such as carbon, technical ceramics, quartz and sintered metal – as well as machines and systems – from environmental simulation and air conditioning to ultrasonic welding and optical machines. For the sealing, pump and compressor industry Schunk produces highly specialized carbon, silicon carbides, composite materials and fiber-reinforced materials for seal rings, bearings, vanes, sleeves and other components. The high reliability of our materials combined with the inhouse application engineering help customers to increase the lifetime of their products for various applications.

SCOTT ROTARY SEALS 2319

301 Franklin Street Olean, NY 14760 USA PH: 716-376-0708

FX: 716-372-1777

http://www.scottrotaryseals.com

With over 5 decades of experience in specialized fluid sealing applications and complete in-house production capabilities, SRS provides flexible and innovative solutions for a wide range of industries. With a narrow focus on rotary union, rotary timing valve, and Babbitt bearing technology, SRS delivers products with performance and precision that exceed industry standards. SRS also Specializes in design (including reverse engineering), production, and repair of precision tilting pad and fixed geometry Babbitt Bearings. Babbitt precision OEM bearings for high speed rotating equipment: compressors, turbines, gearboxes, electrical motors, and pumps.

SEALING EQUIPMENT PRODUCTS COMPANY (SEPCO)

7721 Thomson Street 123 Airpark Industrial Road Alabaster, AL 35007 USA PH: (205) 403-7500

http://www.sepco.com

2917

SEPCO is a global sealing solutions provider headquartered in Alabama, USA. With a proud history of providing quality sealing components, SEPCO manufactures pump and valve packing, mechanical seals, gasket materials, high-performance plastics, air seals, and bearing isolators.

SEALMATIC INDIA LTD. 2812

Unit No. 'A', Indiplex-IV, Survey No. 12/9-A, Shan Thane Maharashtra, India 401 107 India

PH: 022 5050 2700

http://www.sealmaticindia.com

Sealmatic designs and manufactures mechanical seals and associated products mainly for the oil & gas, refinery, petrochemical, chemical, pharmaceutical, fertiliser, power, mining, pulp & paper, aerospace, marine and many more industrial applications. It provides the most complete selection of engineered mechanical seals and sealing support systems. Sealmatic products are globally recognized as a trusted brand in the process industry.

SELECT LASER ALIGNMENT

1835

PO Box 295 Judson, TX 75605 USA PH: (903) 736-7457

https://selectlaseralignment.com/

Select Laser Alignment is a specialized precision alignment and dimensional metrology services company based in Texas. We utilize state-of-the-art laser trackers to provide accurate alignment analysis down to the thousandth and solve complex alignment and measurement needs.

SHACKELFORD-WATTNER

1926

7405 Major St Houston, TX 77061 USA PH: 713-644-5595 http://www.swtcb.com

Shackelford-Wattner along with our sister company, Kile Industries, Inc., is conveniently located in the shadow of Houston's Hobby Airport and has been servicing the needs of the rotating equipment industry for over 50 years.

Shackelford-Wattner and Kile Industries have earned a reputation for producing the highest quality products and services which include manufacturing, balance, inspection, repair, replacement, special fasteners, lapping tools, and plug/ring gages for all types of gear, disc, and diaphragm couplings. We take great pride in being able to provide quick, accurate, and complete support of couplings and coupling related products.

SHANLEY PUMP & EQUIPMENT

2911

2525 S. Clearbrook Drive Arlington Heights, IL 60005 USA

PH: 847-439-9200 FX: 847-439-9388

http://www.shanleypump.com/

Shanley Pump is in suburban Chicago. For over 45 years, we have been a stocking supplier of positive displacement pumps for lube oil, fuel oil and hydraulic oil pumping applications. Our factory trained sales engineers offer immediate response to pump inquiries.

SHIN NIPPON MACHINERY

2540

16055 Space Center Blvd, Suite 750 Houston, TX 77062 USA PH: 281-990-8594

FX: 281-990-8594 http://www.snm.co.jp

Shin Nippon Machinery is the only manufacture in the world that produces API610 process pumps and API611/612 steam turbines in the same factory in Japan. This package solutions approach uniquely address the need on the oil and gas industry. With high quality and reliability, SNM's process pumps and turbines have been adopted for use in refining and petrochemical equipment in more than 70 countries around the world.

SIEMENS ENERGY

2227

15375 Memorial Drive Houston, TX 77079 USA PH: 713-973-5497

http://www.siemens.com

Siemens is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 165 years. The company is active in more than 200 countries, focusing on the areas of electrification, automation and digitalization. One of the world's largest producers of energy-efficient, resource-saving technologies, Siemens is a leading supplier of efficient power generation and power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. In fiscal 2017, which ended on September 30, 2017, Siemens generated revenue of €83.0 billion and net income of €6.2 billion.

SIGMA ENGINEERS & CONSTRUCTORS

2251

11585 Lake Sherwood Ave Baton Rouge, LA 70816 USA PH: (225) 810-3100 http://www.sigmaec.com

Sigma Field Services provides technical support staffing for turbomachinery and commissioning projects. Services offerings: Technical Outage and Commissioning Support, Shop Work Oversight, Troubleshooting Support, Reliability Engineering Support, Outage Planning, Parts Lists, Health Assessments, Maintenance Strategies, Preventative Maintenance, Deck Books, PLC and DCS Programming & Integration, Governor & Instrumentation Configuration, Turn-Key Field Services.

SIKA CORPORATION 2445

889 Valley Park Drive Shakopee, MN 55379 USA PH: 1-800-243-6739 https://mbcc.sika.com/en-us

Sika is a specialty chemicals company with a leading position in the development and production of systems and solutions for the construction industry. We provide a range of products and solutions tailored to industrial construction needs, including concrete repair materials, grouts, sealants, and containment coatings. Sika's unique solutions provide structural integrity, safety, and environmental protection allowing for uninterrupted production. Whether the need is support and alignment of critical rotating equipment, concrete deterioration prevention, or containment assurance, Sika's industry respected people and products provide unique solutions.

SIMERICS, INC. 1350

1750 112th Ave NE, Ste C250 Bellevue, WA 98004 USA PH: (425) 502-9978

http://www.simerics.com

Simerics develops and sells a three dimensional (3D) analysis software including Simerics-CFD, Simerics-FEA and Simerics-OPT, the latter for design optimization. A wide range of pump, valve or compressor specific templates make model set-up fast and easy. Severe cavitation, micron-sized gaps, particle erosion, pressure ripple, noise and NPSH3 can be simulated by a fast parallel solver. Pumps include crescent, vane, VDVP, gerotor, external gear, diaphragm, radial piston, swash plate piston, bent axis piston and progressive cavity. Valves include spool, control, release, ball, poppet, flip, axial, and circumferential. Compressors include scroll, twin screw, single screw, lobe, rolling piston, vacuum, reciprocating and centrifugal.

SKF S2M MAGNETIC BEARINGS

2141

2 rue des Champs Saint Marcel Eure 27950 France

PH: +33 2 32 64 33 23

https://www.skf.com/group/products/magnetic-bearings-systems

The SKF S2M Magnetic Bearing is the leader in the magnetic bearing technology and has proven by equipping over 1500 turbomachines of powers going up to 30MW (14MW for turboexpanders, 16MW for High-Speed Electric Motors, 20MW for hermetically sealed compressor and 30MW for compressors). SKF S2M allows a higher reliability, powerful monitoring at user's disposal, operational cost cuts for all Turbomachines, maximizing the equipment for the end-user. Furthermore, the magnetic bearing technology allows in most cases cuts down direct and indirect energy consumption. SKF S2M and their partners have also managed to open new applications and growing markets like Boil-off

SOFTINWAY, INC.

1814

20 Burlington Mall Rd, Ste 450 Burlington, MA 01803 USA

PH: (781) 328-4310

http://www.softinway.com

SoftInWay, Inc. is a global R&D engineering company specializing in the development of efficient turbomachinery components and systems. Its

integrated and automated software platform AxSTREAM® covers all steps of turbomachinery design, redesign, analysis, and optimization (including complete 3D design, thermodynamic cycles, rotor dynamics, and secondary flow and cooling system simulation). SoftInWay also offers several engineering services and educational courses, available both online and in a classroom-style setting. SoftInWay supports more than 500 companies worldwide and works closely with OEMs, service providers, utility companies, universities, research laboratories, and government organizations.

SOHRE TURBOMACHINERY INC.

2629

34 N Maple St., Ste 7 Florence, MA 01062 USA PH: 413-267-0590

FX: 413-567-0592

http://www.sohreturbo.com

Sohre makes shaft grounding brushes to control stray electrical currents in electrical and nonelectrical turbomachinery (compressors, Sohre brushes are useful for electrostatic, electromagnetic, or other electrically induced stray currents. The current rating of Sohre brushes ranges from 1 to 100 DC amperes per year of bristle life. Brushes utilize special alloy bristles and are run directly on shaft, either dry or in oil. Cleaning or maintenance generally is not necessary.

SOLAR TURBINES INCORPORATED

1719

P.O. Box 85376

San Diego, CA 92186-5376 USA

PH: 619-544-5352 FX: 619-544-2633

http://www.solarturbines.com

Headquartered in San Diego, California, USA, Solar Turbines, a subsidiary of Caterpillar Inc., is one of the world's leading manufacturers of industrial gas turbines and compressors, with approximately 16,000 units with more than 3 billion operating hours in more than 100 countries. Products from Solar play an important role in the development of oil, natural gas and power generation projects around the world. Solar's products include gas turbine engines, gas compressors, and gas turbine-powered compressor sets, mechanical-drive packages and generator sets.

1151 Ardmore Ave Itasca, IL 60143 USA PH: 630-616-4411

FX: 630-776-0727

http://www.solbergmg.com

Solberg designs and manufactures vacuum assisted and static oil mist eliminator systems to capture the vented emissions from turbine and compressor lube oil systems, and engine crankcases. Our systems protect the rotating equipment by preventing seal leakage and protect the surrounding environment by eliminating the oily emissions.

SOUTHWEST IMPREGLON

1715

15014 Lee Rd. Humble, TX 77396 USA PH: (281) 441-2000

Southwest Impreglon is a top applicator in specialized coating technologies. We provide high-performance coatings to a range of industries including Power Generation and Oil & Gas. From high-temperature oxidation to mechanical wear and corrosion, gas and steam turbine equipment is susceptible to damage that can have severe consequences for the power grid. Our aluminide coatings are formulated to protect turbine blades and other rotating and stationary components from corrosion and pitting. Our HVOF and plasma sprayed coatings offer superior wear, corrosion, and thermal barrier protection. We're committed to finding the best solutions for your applications with our in-house Metallurgical Laboratory and on-staff Chemist.

SPECTRA QUEST, INC

1249

8227 Hermitage Road Richmond, VA 23228 USA

PH: (804) 261-3300 FX: (804) 261-3303

http://www.spectraquest.com

Spectra Quest is the leading developer and manufacturer of turn-key systems for research, education, and training in machine condition monitoring and fault diagnosis, and engineering educational laboratory devices. A turn-key system includes a machinery fault simulator, instrumentation, software, curriculum, and

laboratory exercise books. Our products are sold in over fifty countries and our customer base spans Fortune 500 companies, R&D establishments, and toprated academic institutions.

SPL CONTROL INC. 1653

84 Shaver Street Brantford ON Ontario N3S0H4 Canada PH: (226) 606-7815 http://www.splcontrol.com

With a primary focus on Gas Turbine Combustion Air Intake Systems, Ventilation Systems, Acoustical Enclosures and Exhaust Systems, SPL Control Inc. is focused on engineered custom acoustic solutions. For over forty years, SPL has pioneered the development of world-class acoustical packages. With hundreds of custom engineered acoustic package installations throughout the world, SPL has, and continues to maintain, the highest level of product knowledge and expertise, along with the ability to design, manage and supply acoustical products to any continent in the world.

SSS CLUTCH COMPANY, INC.

2221

610 West Basin Road New Castle, DE 19720 USA PH: 302-322-8080 http://www.sssclutch.com

SSS Clutches- Propulsion systems for 50+ navies; 650+ peak-load generators for synchronous condensing, single-shaft combined-cycle plants, steam turbines to 400 MW in CHP/Cogen, (CAES) plants, 500+ diesel engine driven rotating UPS generators, dual driven pumps, dual driven compressors, including gas pipeline, dual driven process and boiler fans, energy recovery applications, thousands of turning gear and gas turbine starter drives.

STASSKOL USA 1406

1530 E Summitry Circle Katy, TX 77449 USA PH: (281) 912-8567 https://www.stasskol.de/en/

156

STASSKOL was incorporated in 1920 with name Deventer and combines a blend of tradition and innovation which has been the key to the success. The experience gained over generations enabling STASSKOL to develop new products and materials which have created a strong demand for the products. All of the sealing elements are designed specifically for the application. This is what makes STASSKOL different from other companies.

STEIN SEAL INDUSTRIAL DIVISION

2320

375 East Church Road Telford, PA 18969 USA PH: (267) 203-9030 FX: 215-703-9864

http://www.steinsealind.com

Stein Seal Industrial Division is a world-class manufacturer of mechanical sealing systems. With over sixty years of mechanical seal Development, Engineering, Manufacturing, and repair service history. With strategic repair and development centers, Stein is uniquely positioned to service the needs of the turbine, compressor, petrochemical and heavy industries market segments.

STORK H&E TURBO BLADING

1914

334 Comfort Rd Ithaca, NY 14850 USA PH: (607) 277-4968

FX: 607-277-1193

http://www.he-machinery.com

Stork Turbo Blading has a large inventory of stock materials in different grades to support your blading needs and is the leading manufacturer of reverse engineered steam turbine blades, buckets, nozzles; gas turbine compressor or axial process compressor blades, stator vanes, inlet guide vanes; generator fan blades; FD & ID blower blades; and Fan blades and vanes for multiple applications & industries. For certain common gas turbine compressor types, we have a stock program. This allows us to deliver economic high quality rotating equipment parts quickly. Please contact us for further support.

1003 Clay Court Deer Park, MD 77536 USA

PH: (281) 241-5809

https://structuraltechnologies.com/

STRUCTURAL TECHNOLOGIES is firmly committed to its mission of making structures stronger and last longer. We develop and integrate products, engineering support, repair and maintenance services to provide value-added solutions to owners, engineers and contractors. STRUCTURAL TECHNOLOGIES provides state-of-the-art proprietary products and engineering support, and delivers repair & maintenance services through our construction licensees.

SUMITOMO HEAVY INDUSTRIES GEARBOX CO., LTD.

1126

3-33, 2-Chome, Nakanoshima, Kita-ku Osaka-shi Osaka 530-0005 Japan PH: (+)81-50-2036-2629

http://www.shigearbox.com

Sumitomo Heavy Industries Gearbox Co., Ltd., formaly called SEISA Gear Ltd., has more than 100 years of manufacturing experience in highly customized gear drives, highspeed acceleration and reduction gears for compressors and turbine generators, mill drives for cement and coal, and gear couplings. As a result, those geared products are trusted and used in various fields as key components.

SUNDYNE 2525

14845 West 64th Ave. Arvada, CO 80007 USA PH: 303-425-0800 http://www.sundyne.com

Sundyne manufactures highly reliable engineered process Pumps and Compressors. The Sundyne product line consists of Ansimag Magnetic Drive Non-Metallic Pumps, HMD/Kontro API-610/685 Pumps, Sundyne API-610 Pumps, Sundyne API-617 Process Compressors, Marelli API-610 Pumps, and Sunflo High Pressure Pumps. With facilities and expert Channel Partners around the world, Sundyne products are an integral part of the process industries that fuel life's basic needs.

6220 Culebra Road San Antonio, TX 78238-5166 USA

PH: (210) 522-3561

http://www.machinery.swri.org

Southwest Research Institute® (SwRI®) is an independent, nonprofit, applied research and development organization founded in 1947 and headquartered in San Antonio, Texas, with more than 3,000 employees and an annual research volume of \$844 million. SwRI provides quick-response field consultation and design services to solve vibration, pulsation, and performance problems associated with plant machinery and piping systems. SwRI is also recognized for its turbomachinery development services from concept design and rig testing to full-scale prototype fabrication and evaluation.

SYTEK ELECTRIC 2742

1233 West 34th Street Houston, TX 77018 USA PH: (713) 862-8813 http://www.sytekelectric.com

Electric Motor repair services Our repair facility consists of over 20,000 sq. feet, (5) bridge cranes totaling 70 tons of lifting capability, as well as jib cranes allowing us to handle almost any size motor. We offer services 24/7 as well as field service. We are dedicated to keeping our customers up and running and strive to get each job done right and deliver on time. Our quality craftsmanship and customer service is the foundation of our company.

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T.F. HUDGINS

1401

10344 Sam Houston Park Dr. Suite 110 Houston, TX 77064 USA

PH: 713-682-3651 FX: 281-807-3244

https://www.alliedreliability.com/engineered-products

T.F. Hudgins, an Allied Reliability brand, specializes in protecting assets and driving reliability improvements for reciprocating and rotating machinery using proven solutions and in-depth application expertise. We leverage internal

engineering, manufacturing, and project management capabilities, as well as the resources of leading manufacturing partners to yield meaningful improvements in productivity, longevity, efficiency, cost-effectiveness, safety, and environmental compliance.

TECHSTAR 2900

802 W 13th St Deer Park, TX 77536 USA PH: 281-542-0205 https://techstaris.com

With over 20 years in process controls and industrial automation, TechStar has everything needed to help get your measurement and process challenges solved and running in their optimal performance and output. Experience, innovative solutions, training and service are the foundation of what TechStar offers to customers. Backed by our world class manufacturing strategic partners, our team is well equipped to see you through every step of the toughest applications and challenges.

TEIKOKU USA 2801

959 Mearns Road Warminster, TX 18974 USA PH: 267-485-4043

http://www.teikokupumps.com

Teikoku USA is the largest sealless canned motor pump manufacturer in the world. Teikoku designs and manufactures wide array of pumps that can be engineered to order and comply with global third-party standards such as API, ASME, ANSI, ISO and JIS. Emission and leak free canned motor pumps provide highest process safety and containment control through secondary containment safety. Customers are able take advantage of industry leading reliability for handling of hazardous, toxic and environmentally sensitive fluids. As the only manufacturer in North America, Teikoku has three service centers dedicated to supporting its installed base.

TERN TECHNOLOGIES, INC.

1735

200 W 34th Ave, # 1017 Anchorage, AK 99503 USA

PH: 907-522-2411 FX: 907-522-2412

http://www.terntech.com

Tern Technologies, Inc. is a full service rotating equipment consulting group offering the best in optical and laser alignment, precision measurement, vibration analysis, mechanical engineering and instrumentation support. Their personnel have extensive world-wide experience with a wide variety of rotating equipment. Industries serviced include power generation, petrochemical, pipeline, pulp and paper, mining and marine propulsion. Services include shaft alignment, thermal growth studies, internal alignment, routine periodic vibration surveys, field balancing, vibration analysis and permanent vibration monitoring system engineering, installation and maintenance. Rotating equipment engineers provide field service support for construction and start-up, failure analysis and design audit.

TEXAS COMPRESSION LLC

1335

2214 West 43rd Street Suite: B Houston, TX 77018 USA

PH: 713-290-0202 FX: 713-290-0303

http://www.TexasCompression.com

Texas Compression, LLC is a Houston-based mechanical and industrial services contractor offering a complete range of professional and technical services. Our mission is to safely deliver the highest level of service and premium products maximizing the uptime of critical process equipment. With more than 30 years' experience working in the energy industry, we guarantee we will safely complete your project and exceed your expectations. Texas Compression specializes in situations where safety, quality and reliability are a priority.

TEXEL-SEIKOW U.S.A., INC.

10757 Cutten Rd. Bldg. 4 Houston, TX 77066 USA PH: (281) 928-7041 https://texelseikow.com/



TEXEL-SEIKOW U.S.A. is US subsidiary of Seikow Chemical Engineering & Machinery who is global manufacturer of blowers, pumps, and environmental equipment by utilizing core corrosion resistance technology. Engineering and product lines allows to offer the optimal solution for practically any corrosive gas or liquid handling application. We design and construct our products based on advanced polymeric materials that possess excellent corrosion resistant and durable qualities to service any corrosive chemical application for a wide range of industries. The 3 primary groups of product lines we develop are Chemical Resistant Pumps, FRP and Polypropylene Centrifugal Fans/Blowers, and FRP Wet Scrubbers.

THE VIBRATION GUYS LLC

2719

PO Box 1944 Friendswood, TX 7581 USA

PH: 281-576-7212 FX: 832-295-4840

http://www.thevibrationguys.com

The Vibration Guys™ is a world-class condition monitoring solutions company that specializes in vibration analysis, non-destructive testing, laser alignment, field balancing and other specialized services and diagnostic services for rotating equipment. We provide preventive and predictive maintenance for all industries utilizing rotating equipment including the oil & gas industry encompassing upstream, midstream, and downstream; petrochemical, chemicals, energy generation & transmission, food and beverage bottling and manufacturing, forestry, medical & specialty gases production, and other manufacturing specialties. We have pump specialists with over 30 years of field experience.

THIRD COAST SHRINK WRAP

3072

424 N 11th Street La Porte, TX 77571 USA PH: (281) 941-4446

http://www.3cshrinkwrap.com

Third Coast Shrink Wrap offers the full line of Zerust Preservation, storage and shipping solutions using VCI (Vapor Corrosion Inhibitor) films, sprays and greases, to safeguard equipment. This also includes a full line of rust removers and chloride neutralizing washes, some of which are great for hydrotesting. Our VCI outdoor shrink wrap film lasts over 3 years outdoors and prevents corrosion. We're conveniently located in La Porte, Texas.

120 Industrial Drive Slidell, LA 70460 USA

PH: (985) 649-3000

http://www.ThomasPump.Com

Thomas Pump manufactures the T-GTO Pitot Tube pump in the USA. The T-GTO is a high-pressure centrifugal pump designed for a pressure range of 600-1500 psi and flow rates up to 400 GPM. In addition, we engineer, design, and manufacture custom pump systems that are tailored to your plant's demand. Our commitment to service is highlighted by our 24/7 XCHANGE program, sending out replacement pumps to customers within 24 hours of a request.

THORDON BEARINGS INC.

2818

3225 Mainway

Burlington ON Ontario L7M 1A6 Canada

PH: (905) 335-1440 FX: (905) 335-4033

http://www.ThordonBearings.com

Thordon Bearings designs and manufactures a complete range of self-lubricating polymer bearings for various operating environments. Thordon has several grades that in virtually all applications and can replace greased bronze bearings in all applications where they are currently installed such as vertical pumps, aerators, flocculators, screens, butterfly valves or pivot point applications. Thordon polymers are easy to machine and tube stock can be kept on the shelf for quick repair. Thordon's strong and recognizable global brand is known for high quality and superior performance.

TOTAL INDUSTRIAL SERVICES SPECIALTIES, INC

2625

12800 Fuqua, St Houston, TX 77034, US PH: (281) 922-7555 FX: (281) 922-7555

http://www.tissinc.com

Total Industrial Services Specialties, Inc. (TISS) Is the one stop shop for Millwright Services, Field Machining, Bolt Toquing, Machine Shop Services and Equipment Repair. We specialize in the installation, maintenance and repair of Turbines, Pumps, Compressors (Reciprocating and Centrifugal), Extruders, Gear Boxes and

other Related Equipment. TISS takes great pride in providing quality, efficiency and most of all, the safest workforce in the industry

TORKWORX 1753

8319 Thora Lane Spring, TX 77379 USA PH: (281) 257-1877 http://www.torkworx.com

TORKWORX is a leader in providing equipment and manpower to ensure competent and safe solutions for the controlled tightening and loosening of complex joints. Our quality product and services are delivered to the Oil & Gas, Power Generation, Civil Engineering and Heavy Engineering industries. We also specialize in the sale, the hiring and the consulting of well engineered solutions for industrial bolting applications.

TORQUEMETERS LIMITED



2641

West Haddon Road

Ravensthorpe Northamptonshire NN6 8ET United Kingdom

PH: (+)4401604770232 FX: (+)4401604770778

http://www.torquemeters.com

Measuring steady state torque and torsional vibration in a single product, their Torquetronic(TM) Continuous Duty Torque measurement system is the recognized industry standard for accurate power measurement of mechanically driven turbo machinery in the Oil, Gas and Petrochemical industries. Torquemeters' 800 family of display electronics provides a flexible platform to show real time continuous torque and torsional vibration analysis, including FFT capability. SIL2 capability now available for real time accurate torque/power measurement for process control.

TORQUE TOOLS INC 1101

9421 FM 2920 Bldg 2 Tomball, TX 77375, US

PH: 2813208677

http://www.torquetoolsinc.com

Founded in 2004 as a distributor of RAD Torque Systems, Torque Tools Inc. began as a family-owned venture, initially offering a limited tool selection and repair services. Yet, growth followed. Fueled by unwavering customer contentment and diligent teamwork, our company expanded. Bolstered by round-the-clock availability, we assure clients exceptional service and punctual delivery. Emphasizing top-tier sales, devoted maintenance, comprehensive rentals, and NIST traceable calibrations, Torque Tools Inc. is committed to not only amiable customer support, but also to furnishing unparalleled overall experiences for our valued customers.

TOSHIBA INTERNATIONAL CORPORATION

1101

13131 West Little York Road Houston, TX 77041 USA PH: (800) 231-1412 http://www.toshiba.com/tic

Toshiba International Corporation offers a full range of low and medium voltage motors, adjustable speed drives, motor controls, and power apparatus & components. We are anchored by a totally integrated manufacturing process consisting of: research and development, design, engineering, production and manufacturing, and aftermarket service and support. With the capability to test products together as a system before sending out into the field, TIC ensures the highest level of quality, performance, and reliability.

TRINITY COATINGS LLC 1949

25225 Highway 288 Rosharon, TX USA 77583 USA PH: (832) 519-3941 http://www.trinity-coatings.com/

Quality Robotically Applied Thermal-Sprayed Coating Solutions for the Power Generation, Oil & Gas, Petrochemical Industries. Turbomachinery & Rotating Equipment *HVOF, Plasma Spray, Twin Arc wire TSA/TSZ, TBC, Chrome Tungsten Carbides, Abradable Coatings, Industrial Painting, Dry Film Lubricants, Aluminum Slurry Coatings* ***Turnkey Services*** *Abrasive Blast, Shot Peen, Vacuum Heat Treat, Manufacturing, Machining, Grinding Services*

TRI-SEN SYSTEMS 1248

109 Magellan Circle Webster, TX 77598, US (832) 632-1211 http://tri-sen.com

While our headquarters is in Houston Texas, we have offices in Europe, Singapore, the Middle East, India and China providing turbomachinery controls solutions to the power and process industries throughout the world. Since 1976 our focus has been on supplying high-quality, control services and products for turbines, compressors and generators.

TRIVENI ENGINEERING AND INDUSTRIES LTD

2804

No 1,2,3 Industrial Area, Metagalli Post Mysore Karnataka 570017 India

PH: +91-821-4286503 FX: +91-821-4286531

http://www.trivenigroup.com

Triveni Engineering and Industries is one of the largest manufacturers of High Speed Gears and Gearboxes in Asia, having rich experience oh 4 and 1/2 decades on supplying engineered gear solutions to OEM and repair and refurbishment of other gearbox brands across various critical applications like Steam Turbine Generators, compressors, Pumps and Fans to Industry segments viz Power Generation, OII and Gas, Fertilizer, Cement, Steel. With an Installation base over 12000 units across Globe, testing capability upto 90 MW, Triveni - preffered choice to Global suppliers and End-users.

TRIVENI TURBINES 2605

12-A, Phase 1, Bengaluru KS Karnataka 560058 India PH: 08022164000 http://www.triveniturbines.com

Triveni Turbines is one of the largest manufacturers of industrial steam turbines of up to 100 MWe and has emerged as one of the market leaders in the sub-30 MWe range. With more than 1 billion operating hours of turbine fleet, it has installed over 6,000 steam turbines (generating more than 16 GW power generation capacities) in 20 plus industries. We are present in over 75 countries around the world, and the steam turbines are manufactured at our world-class facilities located in Bengaluru, India.

309 CR 2242 Cleveland. TX 77327 USA

PH: (281) 562-7655

http://Turbinespecialty.com

Steam Turbine Repair and parts Pump repair and Service Gear Box Repair and Service Babbitt Bearing manufacture and repairs Fab shop- Skids, Tanks, Gas and Oil Manufacture Parts- All Steam Turbines New Rotors Machining - Line Bore, Fly Cutting, incerts, Balancing- of all types of Rotors Sand Blasting - Industrial Painting

TURBINE PUMP AND COMPRESSOR

1421

8040 Leesa Lane Pasadena, TX 77507 USA PH: (281) 991-1997

FX: (281) 991-1564 http://www.T-P-C.net

Quality Robotically Applied Thermal-Sprayed Coating Solutions for the Power TPC is specialized in shop repair, field service repair and sales of parts for steam turbines, pumps, blowers, gearboxes, reciprocating and centrifugal compressors. We package reciprocating compressors and pump units. TPC performs complete compressor overhauls in the field or in the shop. Compressors can be reengineered for process changes or to maximize capacities. FEA studies are performed to maximize new designs of piston and rod assemblies. Manufacture new cylinder liners and install complete in cylinders.

TURBO MACHINING LLC

1112

Allegany Crossroads Olean, NY 14760 USA PH: (716) 307-9193

http://www.turbomachining.com

Turbo Machining LLC specializes in Compressor and Pump component machining: Impellers, Internals, Bearings, Seals, and specialty 5-Axis machined parts. Turbo Machining offers 1-piece impellers, PEEK Journal and Thrust Bearing, and custom seal components for rotating fluid and gas. Offering ISO 9001: 2015 quality compliance and the shortest lead times in the industry.

485F US Highway 1S Ste 210 Iselin, NJ 08830 USA

PH: (732) 346-3027

http://www.turbomachinerymag.com

Turbomachinery International® covers the latest industry news in the energy and industrial markets, including engineering breakthroughs in gas and steam turbines, compressors, expanders, pumps, combined cycles, instrumentation and control and all associated equipment and services in land, air and marine-based applications. Available in PRINT and ONLINE.

TURBOMACHINERY LABORATORY



2022

Texas A&M University 3254 College Station, TX 77843-3254 USA

PH: 979-845-7417 FX: 979-845-1835

http://turbolab.tamu.edu

The Turbomachinery Laboratory, part of The Texas A&M System, conducts theoretical and applied research intro reliability and performance of turbomachinery. The Turbo Lab impacts the industry through three pathways: 1) Research: The Turbomachinery Research Consortium was formed in 1983 to find answers to important questions of reliability and performance of turbomachinery for industrial companies who supply annual research grants. 2) Education: The Turbo Lab produces engineers ready to work by offering undergraduate and graduate engineering education. 3) Professional Workforce Development: The Turbo Lab organizes the annual Turbomachinery & Pump Symposia in Houston and the biennial Asia Turbomachinery & Pump Symposium in Malaysia.

TURBOTIDES, INC. 1747

21 Pinneo Hill Rd. Hanover, NH 03755 USA PH: (480) 313-7277 http://www.turbotides.com

TurboTides is the newest most modern and powerful Design and Analysis software system available for all disciplines of Turbomachinery - Pumps, Compressors, Fans and Turbines. Emphasis is placed on modern and seamless workflow for more rapid and accurate design iterations. TurboTides is also

premiering an industry first 'Al Driven Optimization' for turbomchinery. For the first time, users will be able to design compressors, fans, pumps, and turbines with a seamlessly integrated design workflow combined with a powerful optimizer to achieve fast turnaround times for their design iterations.

TYCON ALLOY INDUSTRIES (HONG KONG) CO.,LTD.

1347

Units 2201 & 2203, Orient International Tower, 1018 Tai Nan West Street, Cheung Sha Wan Kowloon Hong Kong 999077 China

PH: (852)24973300 FX: (852)24351162

http://www.tyconalloy.com

Founded in 1995, Tycon Alloy Industries is specialized in the provision of stainless steel casting engineering solution and related technical and value-added services. Tycon has built a strong reputation in providing high-value precision and sand casting engineering solutions. Since its inception, Tycon has successfully logged over 10,000 different products from several 100g to more than 2500kg a piece. Tycon takes pride in being able to supply top quality products to our market leader customers. Tycon's casting standards are in conformity to international accreditation like ASTM, EN, BS, DIN, JIS, GB, etc., penetrating to Europe, USA, Japan & other Asia country.



UNIVERSAL PLANT SERVICES

1327

4460 Highway 225 Deer Park, TX 77536 USA PH: (281) 694-6000

FX: 281-479-6273

http://www.universalplant.com

Universal Plant Services (UPS) is one of the largest comprehensive service providers for the energy industry, providing project management, installation, maintenance and repair services for rotating and fixed equipment for daily maintenance requirements, turnarounds and capital projects.

USA BORESCOPES 3026

2055 Bearden Road Clarksville, TN 37043 USA

PH: 931-362-3304

http://www.usaborescopes.com

USA Borescopes is a global supplier of borescopes and pipe inspection cameras. In addition, we perform borescope repairs on any make or model borescope with no charge repair estimates.



VANCE METAL FABRICATORS. INC.

3020

251 Gambee Rd Geneva, NY 14564 USA PH: (315) 757-2129

http://www.vancemetal.com

Vance is a ISO 9001:2015-certified, large-capacity metal fabricator and weld shop serving both the pump and compressor industries for over 50 years. With over 25 certified welders and all the supporting equipment to provide you the highest quality fabricated pump and compressor components.

VIBRATION INSTITUTE 1348

1801 N Mill St Naperville, IL 60563 USA PH: (630) 654-2254 https://www.vi-institute.org/

The mission of the Vibration Institute is to disseminate practical information on evaluating machinery behavior and condition without commercial interest. The Institute offers programs including education, training, certification, and opportunities for exchanging technical knowledge, information, procedures, and data that are offered through meetings, publications, formal training and networking. We are a non profit Association. We offer individual and group membership. Our Certification Program for Vibration Analysts is an ANAB Accredited Personnel Certification Program. (ANSI National Accreditation Board) The program is accredited by ANAB to ISO/IEC 17024 and compliant with ISO 18436-1 and -2 for Categories I, II, III, & IV.

VIEWTECH BORESCOPES 2413

Units 2201 & 2203, Orient International Tower, 1745 Barlow Street Traverse City, MI 49686 USA

PH: 231-943-1171

FX: (231) 680-4264

https://www.viewtech.com

ViewTech Borescopes is the leading provider of articulating video borescopes in North America, with over 3,000 units in service across a wide range of industries and applications. Our first product, released in 2008, set a new standard for portability, ergonomics and ease-of-use, with its industry-first mechanical, joystick-controlled articulation. This original borescope, the VJ, was followed by the VJ-Advance, VJ-3, and now the just-released VJ-4. Visit our booth to learn more about our no-cost, no-obligation demo program & test-drive a ViewTech borescope at your own facility!

VOITH US INC. (VTI) 1834

25 Winship Road York, PA 17406 USA PH: 717-767-3200

http://www.voith.com/usa/en

The advanced technologies of Voith Turbo drive machines that move millions of people and goods throughout the world. These technologies safely and efficiently transmit and control power under extreme conditions. The company's extensive range of power transmission products are available for new and retrofit applications which include hydrodynamic variable speed turbo couplings, multistage variable speed drives, high speed and high powered API gearboxes, electrohydraulic actuators, I/P converters, and digital turbine control modules. Featured is the all new VoreconNX, a groundbreaking hydrodynamic power transmission that offers an 8% efficiency improvement in the lower power range.

VOLTA INSITE 1527

20488-G Chartwell Center Drive Cornelius, NC 28031 USA PH: (704) 651-5166 http://www.voltainsite.com

InsiteAl™ empowers you with the high resolution data required to improve

performance and extend the life of your assets. This data can be utilized to maintain accountability with your local utility or electricity provider. Volta Insite™ provides the gold standard for electrical data and predictive analytics throughout your infrastructure. Our Nodes measure the voltage and current of your critical assets 24/7, and process this information in the cloud. Our proprietary algorithms detect patterns and anomalies and transmit real-time alerts to you, offering both insight and oversight. We help you understand your data, pinpoint issues and deploy rapid solutions.



WEG 1534

6655 Sugarloaf Pkwy Duluth, GA 30097 USA PH: (678) 249-2000 http://www.weg.net

WEG's purpose is to develop technologies and solutions that contribute to a more efficient and sustainable world for everyone. WEG is one of the largest manufacturers of electric motors in the world producing more than 10 million units annually. Committed to growth on a global scale, WEG continually invests in state-of-the-art manufacturing facilities and processes, and the development of reliable and more efficient industrial electrical solutions. WEG offers a diverse and integrated product line that includes motors, drives, soft starters, controls, gearing, panels, transformers, alternators, generators, turbines, and custom solutions.

WENZHOU DONGYI MACHINERY MANUFACTURING CO.,LTD

2643

No.18-4 Binhai 9th Road, Jinhai Street, Konggang N

Wenzhou Zhejiang 325000 China

PH: +8613770705366 FX: +86 577-86627799 http://www.wzdongyi.com

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WIKOV GEAR 3017

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Plzen Czech Republic 31600 Czech Republic

PH: +420 720 040 034 http://www.wikov.com

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WILLIS ELECTRICAL 1118

6616 Gant Rd Houston, TX 77040 USA PH: (281) 469-1268 https://williselectrical.com/

Willis Electrical is a UL panel shop that manufacturers and designs custom control panels for various industries. We specialize in UL listed control panels, custom VFD controls and Panels rated for harsh and hazardous locations. Our mission is to provide manufacturers and end users with electrical solutions that are as unique as their problem set. Through communication, personal relationships, and industry knowledge, we aim to serve our customers as if they are our family.

WJE ASSOCIATES 1102

4321 W Sam Houston PKWY N #190 Houston, TX 77043 USA PH: (713) 703-9111 http://www.wje.com

WJE provides dedicated engineering support and specialized testing services to ensure mechanical integrity for structures and equipment in the energy sector. Our team of engineers and materials scientists have the tools and expertise to solve some of the biggest problems in the industry. We offer full-service chemical and metallurgical laboratories, knowledgeable experts in material deterioration, and unique field assessment capabilities.

WOOD 1602

15115 Park Row Drive Houston, TX 77084 USA

PH: 281-920-4442

http://www.woodplc.com/vdn

Wood's vibration, dynamics and noise capability (VDN) is the leading provider globally in addressing vibration, reliability, integrity and noise issues on compressors, pumps, piping and associated equipment. Specialist design and field services include pulsation, torsional, lateral, surge simulation, ODS, resonance, water hammer, piping transients, piping integrity checks, pipe stress, acoustic fatigue, FIV, FIT, AIV, and small-bore piping analyses for onshore, offshore and subsea facilities. VDN also provides damping products and absorbers to control vibration. Attend our technical presentations or check out our vibration demo at booth #1602!

WOODWARD 2311

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http://www.woodward.com

Woodward is the Turbomachinery Control Expert, providing outstanding control system, actuation, valve, and safety system technologies for steam turbine, gas turbine, and compressor equipment. Woodward strives to reduce total cost of ownership and improve system performance and reliability by increasing availability, efficiency, start performance, and operating range. Independently owned and publically traded, Woodward provides products, services, support, and upgrades for any OEM's turbomachinery systems.



XTEND PACKAGING, INC.

2537

21310 Inverness Forest Blvd Houston, TX 77073 USA PH: 281-784-2262

FX: 832-827-2176

http://www.xtendpackaging.com

Intercept Technology products deliver superior, easy-to-use, cost effective, anticorrosion packaging protection for machinery, spare parts, and finished goods. Intercept prevents corrosion and degradation during lengthy shipping or storage cycles without the use of volatiles, vapors, chemicals or coatings. Developed by Bell Labs, Intercept is green, clean, re-usable and recyclable. Intercept is proven 100% safe for all materials, is available in a variety of styles and sizes, as well as packaging on site for you. Intercept performs around the globe in many applications in the harshest of environments and saves money. Visit us at booth 2834.



YORK PROCESS SYSTEMS

2602

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PH: (717) 762-2121

https://www.johnsoncontrols.com/industrial-refrigeration/york-packagedsystems

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2627

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1420

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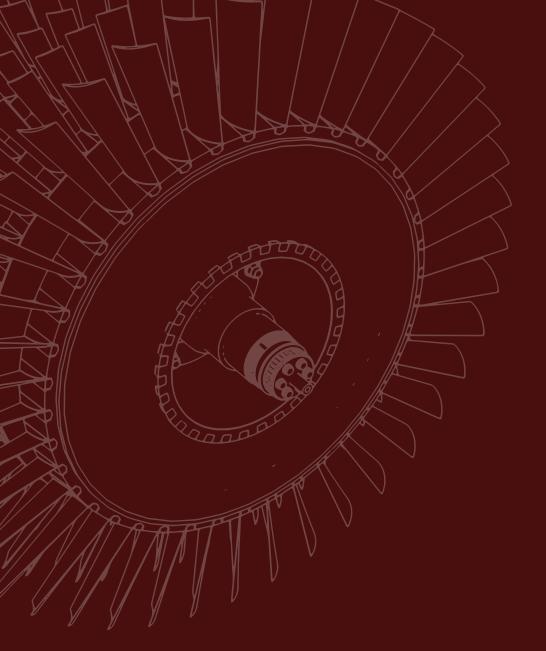
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TURBOMACHINERY LABORATORY

The Turbomachinery Laboratory, a center of the Texas A&M Engineering Experiment Station (TEES), conducts basic and applied research into important problems of reliability and performance of turbomachinery — rotating machinery that extracts or adds energy to fluids. That's everything from the classic Dutch windmill to the space shuttle's main engine turbopumps to compressors that move natural gas through the distribution system.

The Turbo Lab, established in 1982, continues to address the needs of users and manufacturers of turbomachinery and pumps. The Turbo Lab continues Texas A&M University's land-grant charter and tradition of attention to industry needs in three areas:

- Basic & Applied Research
- Undergraduate and Graduate Education
- Continuing Education & Professional Development

The Turbo Lab offers graduate engineering coursework through Texas A&M's Department of Mechanical Engineering and provides continuing education opportunities to users of turbomachinery and pumps all over the world. Opportunities include short courses led by world-renowned researchers and original equipment manufacturers and users, as well as highly regarded symposia in Houston, Texas, and Southeast Asia.

The Turbo Lab also boasts a unique opportunity for turbomachinery developers and users to find answers to important questions about performance and reliability with the Turbomachinery Research Consortium (TRC).



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#GETSOCĮALTPS

SOCIAL MEDIA SCAVENGER HUNT

WHO: All attendees

WHAT: Use the checklist and tag us on socials

WHEN: Tuesday and Wednesday (2:00PM – 5:00PM)
WHERE: Exhibition Floor and Turbo Lab Booth 2022

- ... Visit the participating exhibiting company booths and snap a photo.
- ... Tag #GetSocialTPS, #TPS, and the exhibiting company on social media.
- ... Turn in your completed checklist at the Turbo Lab booth before 5:00PM.
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DR. LESLEY WRIGHT ASSOCIATE PROFESSOR Mechanical Engineering Jana and Quentin A. Baker '78 Faculty Fellow

GENERAL INFORMATION

EXHIBITION

In addition to our technical sessions, we encourage you to join us for our outstanding product show. Our exhibition will provide you the opportunity to engage with world-class technical personnel and view the latest in industry technology and full-sized equipment displays.

The exhibition for paid attendees will take place in Exhibition Halls C, D, and E. The halls will be open during the following times:

- ... Tuesday
 Noon 2 P.M.
- ... Wednesday
 Noon 2 P.M.

FREE PASS HOURS - EXHIBITION

Free Pass Registration required.

- ... Tuesday 2:30 P.M. - 7 P.M.
- ... Wednesday 2:30 P.M. - 6:30 P.M.
- ... Thursday 9:30 A.M. - Noon

WELCOME ADDRESS

The welcome address is scheduled for Tuesday, from 8 - 8:35 A.M. in the General Assembly Theatre C in the George R. Brown, Level 3. This year's speaker is Dr. Eric Petersen, Director of the Turbomachinery Laboratory. Admission is free and open to the public.

LUNCHEONS

Badge required, not open to Free Pass

Lunch will be served on Tuesday and Wednesday in Exhibit Hall D. Admission is granted to paid attendees, exhibitors, and press. The one-day symposia registration fee includes admission to lunch for that day.

TFX-MFX RIIFFFT

Badge required, not open to Free Pass

The Tex-Mex Buffet is scheduled for Tuesday, 7:30 P.M. - 9 P.M. in the Hilton Ballroom of the Americas D. Admissions is granted to paid attendees, exhibitors and press.

BANQUET

Badge required, not open to Free Pass

The Banquet is scheduled for Wednesday, 7:30 P.M. - 9 P.M. in the Hilton Ballroom of the Americas D. Admission is granted to paid attendess, exhibtors, and press.

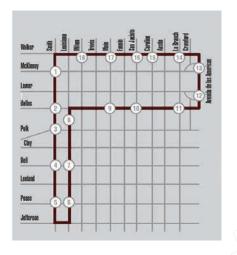
Doors open at 7:15 P.M. No one will be admitted after 7:45 P.M.

GREENLINK BUSES

Free Transportation in Downtown Houston

Seven buses operate in Downtown Houston Monday - Friday, 6:30 A.M. to 6:30 P.M., about 7-10 minutes apart. The route spans 2.5 miles with 18 stops and connects Metro transit stops, the convention corridor, hotels, restaurants, shopping and entertainment.

Greenlink buses stop at popular downtown destinations including GreenStreet, George R. Brown Convention Center, Discovery Green, Main Street Square, City Hall and the Central Library and connects to Metro Park & Ride services and to the Main Street MetroRail line. The buses run on Compressor Natural Gas (CNG), making them a cleaner transportation alternative. Features of the buses include a streamlined, modern design, low-floor access, perimeter seating, high-quality air conditioning, 28-seat capacity, a front-mounted bike rack. Buses are ADA compliant.



SYMPOSIA PROCEEDINGS

The Turbomachinery Laboratory is proud to present the full technical program for this 53rd Turbomachinery and 40th Pump Symposia. These Proceedings are included as part of the full and one-day symposium registration fee. To access the Proceedings, see the QR code located on the flyer in your symposia bag, or visit the registration room for another copy.

CONTINUING EDUCATION

Units/profession development hours (CEU/PDH)

The CEU/PDH is the nationally recognzied unit designed to provide a record of an individual's continuing education achievements. Symposia attendees earn .45 CEUs/4.5 PHDs Tuesday and Wednesday and .3 CEUs/3 PDHs Thursday or 1.2 CEUs/12 PDHs for full symposia. Short Course attendees can earn .6 CEUs/6 PDHs.

In order to receive a CEU/PDH certificate, you must complete and return the appropriate request form to the registration counter during the symposia or via email to the CEU coordinator, debbie@turbo-lab.tamu. edu. A certificate will be prepared and emailed to participants 4-6 weeks after the symposia.

NOTE

Registration is verified prior to issuing certificate.

GENERAL INFORMATION

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All technical sessions are protected by US copyright laws. Photography and video/audio recording of any kind are strictly prohibited in the sessions and throughout the exhibition area, except for authorized press.

AMERICANS WITH DISABILITIES

ADA Amendments Act of 2008 (ADAAA).

The Texas A&M University System welcomes you to the Turbomachinery & International Pump Users Symposia. If you require an accomodation under the Americans with Disabilities Act (ADA), please contact Debbie Maggs at debbie@turbo-lab.tamu.edu or (979)-862-7114 if you are an attendee, or Exhibitor Services at exhibit@turbo-lab.tamu. edu or 979-458-8878 if you are an exhibitor. Early notification is encouraged, and a request two weeks before the event you plan to attend will facilitate the provision of a reasonable accomodation.

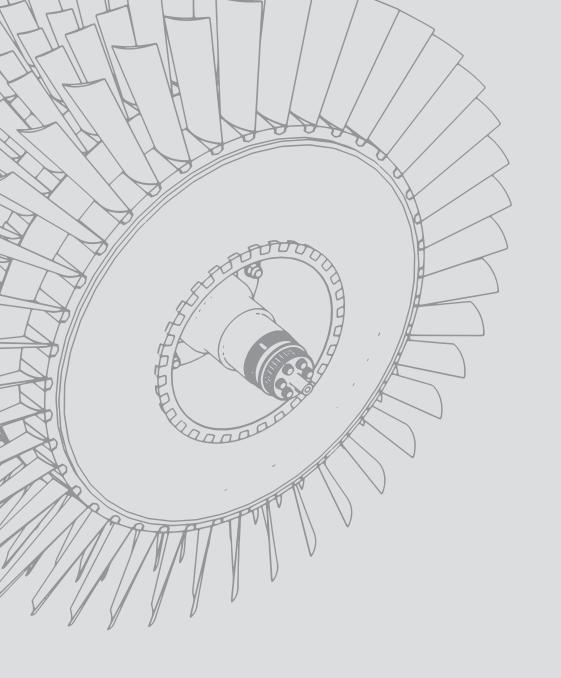
CANCELLATION POLICY

Should symposia and/or short course cancellation be necessary, written refund requests (by fax or mail) must be received by the Turbomachinery Laboratory by midnight, July 18, 2024 for refund of registration fees. There will be a \$50.00 USD administrative and banking fee charge to cancel registration. Substitutions are encouraged. We do request that substitutions be made in advance, as substitutions made onsite at the symposia will result in registration delays.

Late cancellations (after the cancellation date) will be reviewed on a case-by-case basis for personal hardships (death, injury, or illness of the attendee or an immediate family member). Refunds may also be extended for natural disasters (hurricanes, etc.) and national emergencies (9/11, etc.)

The TL does not refund for business decisions (after cancellation date) by the attendee's employer such as: job reassignment, plant emergencies, etc. However, we encourage substituting another employee so the attendees' company receives the benefit of training. In the event of a "no-show" cancellation, short-course/Symposium materials will be forwarded to the absent attendee.

The State of Texas does not allow the TL to extend credit to individuals or companies. Therefore, we cannot apply registration fees for a missed course to another subsequent course. The TL reserves the right to cancel any short course or symposia and return all fees in the event of insufficient registration. We reserve the right to cancel due to unforeseen circumstances. The TL will not be responsible for any losses incurred by the registratnts, including but not limited to airline cancellation charges or hotel deposits.



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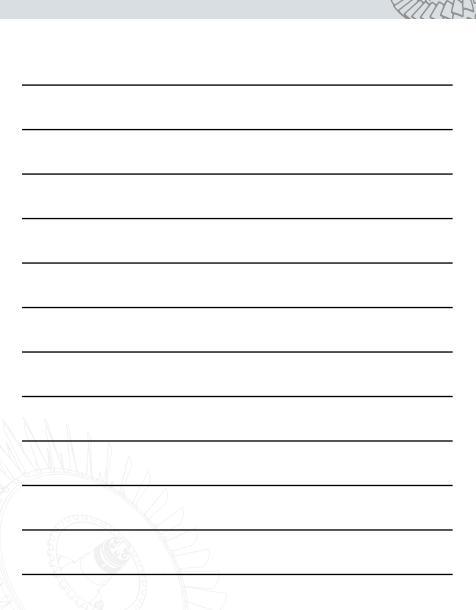
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