

2023

DAC
WORLDWIDE



***Realistic Training
That Works***

Who We Are And What We Do



Early Beginnings

DAC Worldwide was founded in 1980 as a full-service model-making company serving fabrication of technical models. Initial projects related to the design of chemical staff of process piping, mechanical, and electrical designers created high-quality,

engineers, industrial designers, and marketing professionals through the design and plants, refineries, power plants, nuclear plants, and large industrial equipment. Our realistic models that became an integral part of the engineering and design process.

Lessons Learned

In 1982, we began to fabricate training-related models for the nuclear industry. Before long, our realistic training tools were used in projects for virtually every nuclear utility in the country.

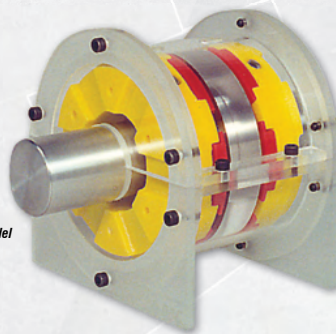
Along the way, we realized the point ... our customers needed realistic, industrial-grade, generic training devices addressing maintenance fundamentals. Further, we found that few products existed that matched their needs.

Product Development

Our product line's development started in 1988, with our original Kingsbury Bearing Model. Still offered today, it has, to some degree, become a historical footnote within a product line addressing a broad range of more fundamental and comprehensive topics.

In spite of all of these changes, many things about our company have remained the same; our commitment to high levels of craftsmanship, our interest and knowledge in industrial equipment and systems, and our interest in solving our customer's needs on a one-on-one basis.

209 | Kingsbury Thrust Bearing Model

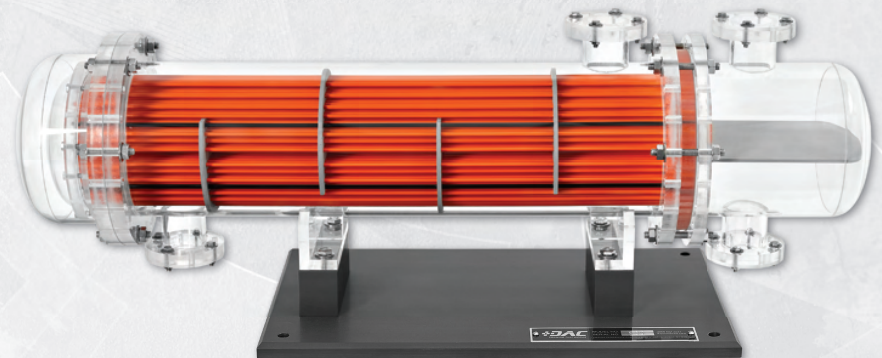


Continuing Excellence

The design assistance we provide today in training program design and implementation has a logical, practical foundation in industrial experience... Experience that can help you get results from your training dollar in the most efficient way possible...

Through actually experiencing common maintenance tasks.

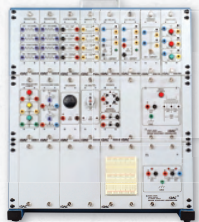
**Learn more about DAC Worldwide
by exploring our vast product line
or contact us!**



287 | Multi-Pass Floating Head Heat Exchanger Training Model

DAC Worldwide manufactures realistic, industrial-quality electrical & electronic training systems that teach a wide range of hands-on maintenance skills in a variety of focused subject areas.

Basic Electrical & Transformers



400-PAC | Basic Electricity Training System Plus

Introduces basic electrical AC and DC principles and troubleshooting



408-000 | Transformer Wiring Training System

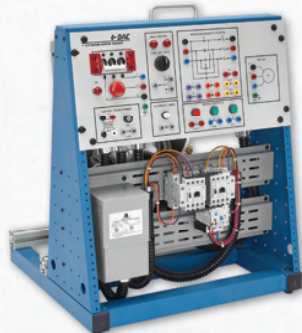
- Conditions and circumstances of making common transformer connections
- Includes two complete sets of three-phase transformers for paralleling training



491-000 | Transformer Connections Training System

- Training in paralleling of generators and connecting to large power grid using modern equipment
- Single-phase and three-phase transformer connections

Motor Control



412-000 | 3-Phase, Squirrel Cage Rotor, AC Motor Training System

Provides starting point for understanding common industrial induction motor

420-000 | 1-Phase Motor Control Training System w/ Manual Starter

Wiring, fault troubleshooting and application of single-phase motors

423-000 | 3-Phase Motor Control Training System w/ Magnetic Starter

Principles, wiring, and troubleshooting of reversing magnetic starters

424-000 | 3-Phase Motor Control Training System w/ Magnetic Starter, Low Voltage Start

Principles, wiring, troubleshooting & application of reversing magnetic starters

426-000 | DC Permanent Magnet Motor Control Training System

Troubleshooting and application of DC permanent magnetic starters



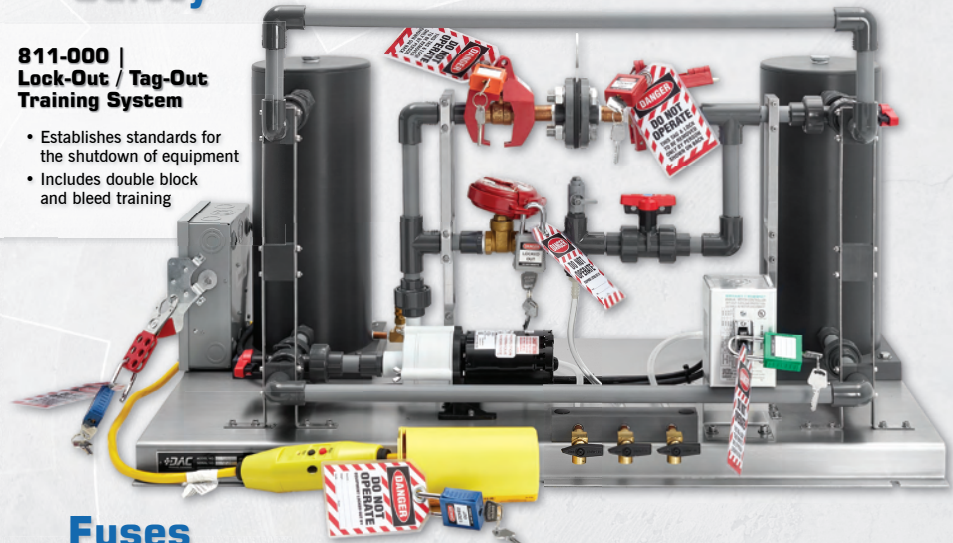
428 | Piloting Switch Module

Controls circuitry using alternate switch components, relays, and timers

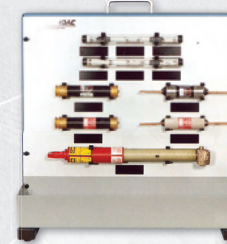
Safety

811-000 | Lock-Out / Tag-Out Training System

- Establishes standards for the shutdown of equipment
- Includes double block and bleed training



Fuses



816-PAC | Fuse Sample Board



Variable Frequency Drives

429E | AC Variable Frequency Drive Training System Plus

- AC drive system troubleshooting, programming, and wiring
- Eight fault switches train on drive, motor, and control wiring troubleshooting



Programmable Logic Controllers

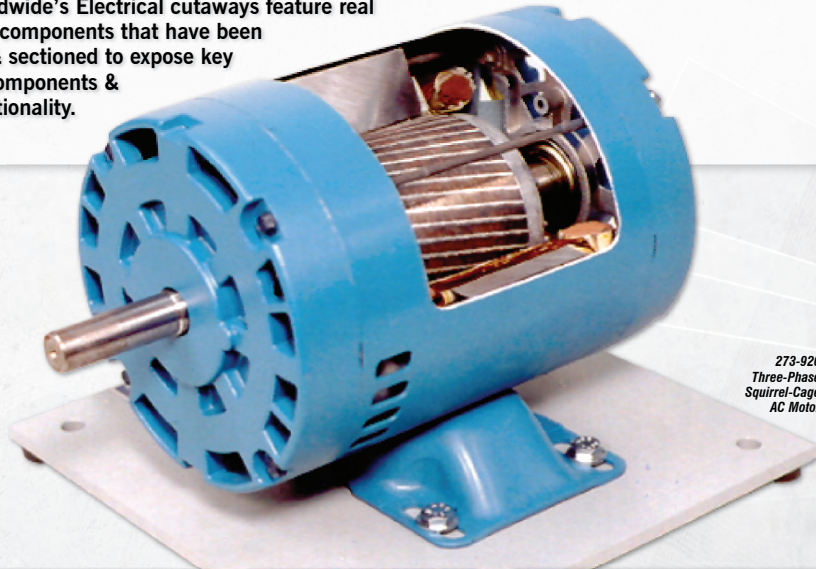
461-000 | Basic PLC Training System - AB Micro850

- Programming and application of industrial PLCs
- Connects to process control, motors/motor control, sensors, PLC application and fluid power training devices

Electrical Cutaways

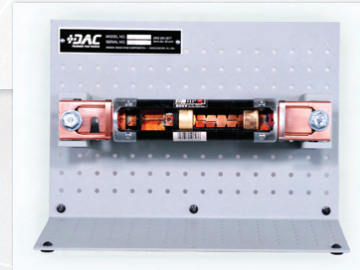


DAC Worldwide's Electrical cutaways feature real industrial components that have been restored & sectioned to expose key internal components & their functionality.



273-920
Three-Phase
Squirrel-Cage
AC Motor

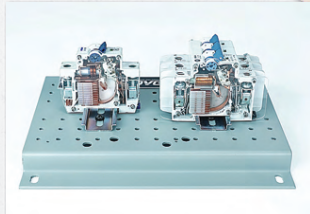
For ease of use, DAC Worldwide's Electrical cutaways come mounted on a modular, heavy-gauge steel baseplate and support assembly.



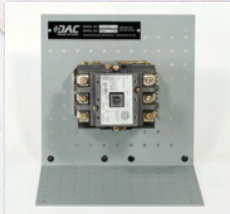
273-960 | Dual Element, Time-Delay Fuse



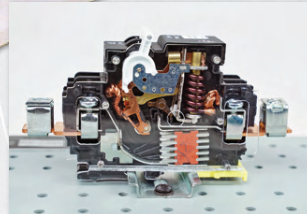
273-930 | Single-Phase Capacitor-Start AC Motor



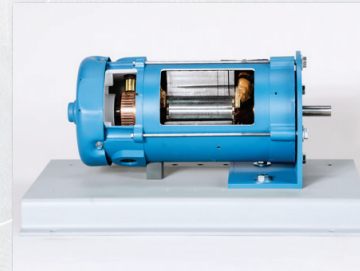
273-906 | Circuit Breaker Set



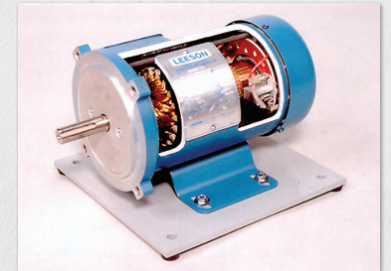
273-910 | Magnetic Motor Starter



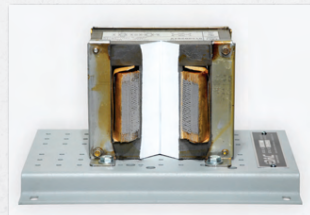
273-907 | 100A, Single Pole Circuit Breaker



273-945 | Shunt Wound DC Motor



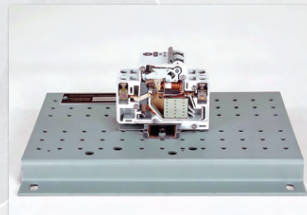
273-940 | Permanent Magnet DC Motor



273-912 | Single-Phase Transformer



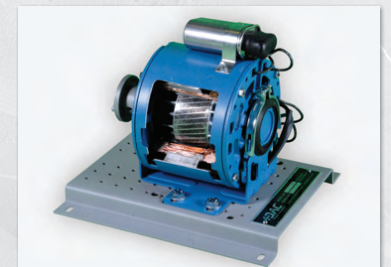
273-915 | Three-Phase Transformer



273-905 | 2-Pole Circuit Breaker



273-925 | Three-Phase Squirrel-Cage Explosion-Proof AC Motor



273-950 | Single-Phase PSC AC Motor

Mechanical Maintenance Training

DAC Worldwide's variety of mechanical training systems, cutaways, dissectibles, & sample boards teach a wide range of maintenance skills.

Gears

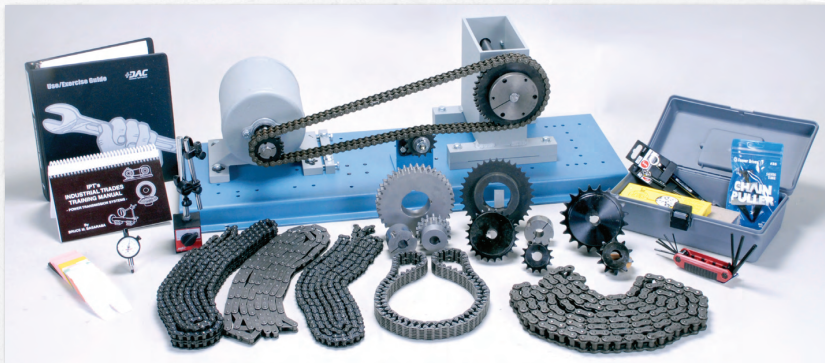


205-PAC | Gear Maintenance

Belts & Chains

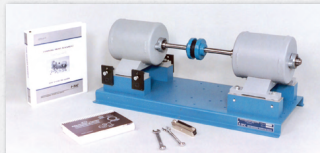


201-PAC | Belt Drive



223-PAC | Chain Drive

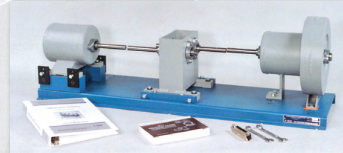
Coupling & Shaft Alignment



208D-PAC | Basic Coupling / Shaft Alignment



207-PAC | Vertical Coupling Shaft Alignment

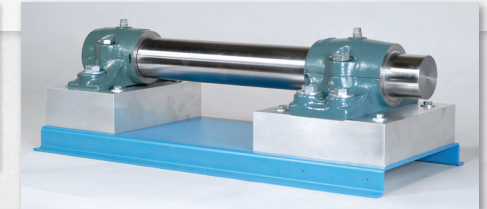


206-PAC | 3-Component Coupling Shaft Alignment

Bearings



204E-PAC | Extended Bearing Maintenance

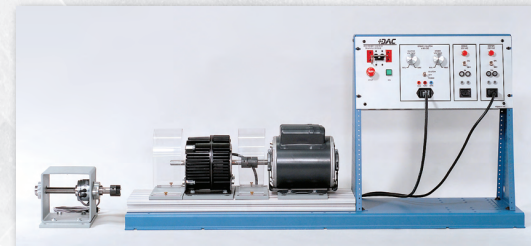


204J-PAC | Journal & Fluid-Film Bearings

Vibration Analysis, Brake Clutch & Fan Balancing



203E-PAC | Advanced Vibration Analysis



220-PACP | Brake Clutch



202-PAC | Fan Balancing

Mechanical Cutaways & Sample Boards

Quality

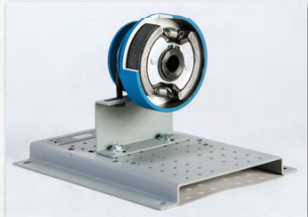


Cutaways & Dissectibles

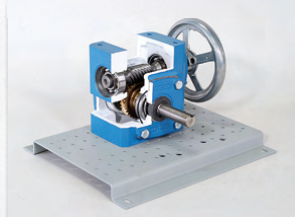
DAC Worldwide's industrial cutaways are industrial components that have been restored & sectioned to expose key internal components & their functionality. Dissectibles allow learners to disassemble, inspect, & reassemble components to teach hands-on maintenance skills.

Cutaways & dissectibles for mechanical maintenance include the following series:

- 200-2000 - Mechanical Component Cutaways (8 in series)
- 205-200 - Gear Reducer Cutaways (15 in series)
- 205-100 - Dissectible Gear Reducers (11 in series)



200-2204 - Centrifugal Clutch Cutaway



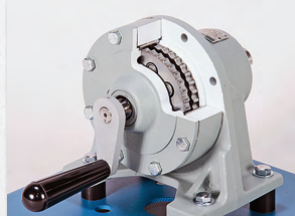
205-201 - Right-Angle Worm Gear Reducer Cutaway



205-190 - Dissectible Mechanical Speed Variator



200-2082 | Fluid Coupling Cutaway



205-270 | Cycloidal Gear Reducer Cutaway



205-120 | Right Angle Spiral Bevel Gear Reducer Dissectible

Sample Boards

DAC Worldwide's sample boards provide easy industrial component identification & selection.

Available sample boards:

- Mechanical Fasteners
- Bearings
- Gears
- Belts
- Chains
- Couplings



836-PAC - Gears



838-PAC - Chains

WELD FAULT COMPARISON KIT 825-000

DAC Worldwide's Weld Fault Comparison Kit (825-000) is a set of three-dimensional visual aids with accompanying training materials.

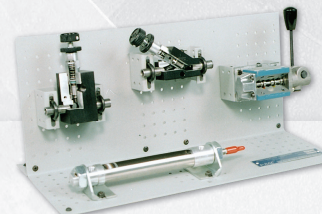
- Teaches identification of common weld defects
- Facilitates basic training in weld quality and weld fault terminology
- Includes twelve molded weld samples that depict acceptable (Go) and unacceptable (No Go) examples of common weld defects
- Welding defects shown include undercut, tie-in, porosity, lack of fusion, fillet size, and other common faults



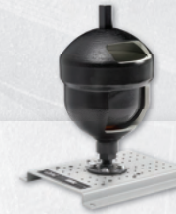
Courseware includes 3 hands-on exercises:

- 1) Introduction to basic weld joint terminology & identification;
- 2) Identification, rating, and classification of weld faults commonly found in the field; &
- 3) Introduction to the use of a weld fillet gauge

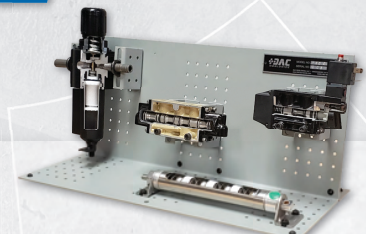
Fluid Power



710 | Hydraulic Component Cutaway Set



773-195 | Bladder Accumulator Cutaway



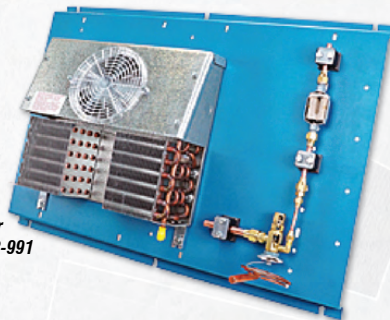
760C | Pneumatic Component Cutaway Set

Focused HVAC Maintenance Training

HVAC System Cutaway

- Teach about the cooling needed for fresh and frozen food preservation
- Sectioned example of refrigeration system
- Enhance training in HVAC system design, maintenance, troubleshooting, and preventive/predictive maintenance

*Ceiling Unit Cooler
System Cutaway | 373-991*



Component Cutaways



*373-195 | Compressor
Service King Valve*



373-510 | ACR Magnetic Check Valve



*373-601 | ACR Liquid Line
Filter/Drier*



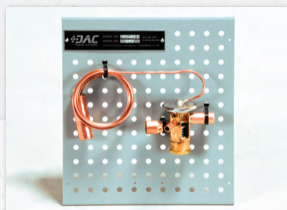
*373-501 | ACR Steel
Ball Valve*



*373-551 | ACR Manual
Balancing Valve*



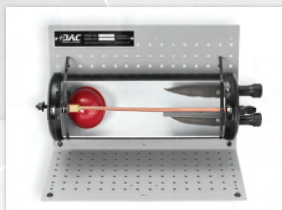
*373-701 | ACR Suction
Line Accumulator*



*373-521 | ACR Thermostatic
Expansion Valve, Fixed-Type*



*373-502 | ACR Solenoid Valve &
373-505 | Heat Pump Reversing Valve*



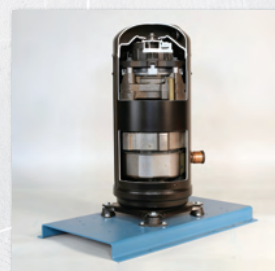
*373-721 | ACR Oil
Separator, Float-Type*

DAC Worldwide's line of HVAC cutaways are real-world industrial components that have been restored and refinished. Each component has been professionally sectioned to expose primary components that students will encounter in the field.

Compressor Cutaways

DAC Worldwide offers students wide-ranging experience using a variety of different compressor types commonly found in HVAC systems, including:

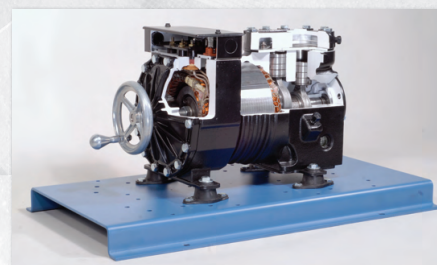
- Hermetic
- Semi-Hermetic
- Open Drive Refrigeration
- Hermetic Rotary



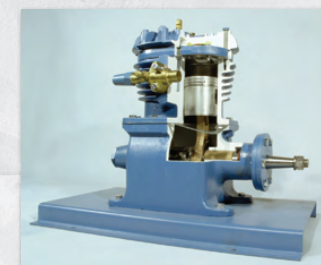
*373-130 | Hermetic Scroll
Refrigeration Compressor*



373-110 | Hermetic Compressor



373-120 | Semi-Hermetic Compressor



*373-140 | Open Drive
Refrigeration Compressor*

Process Control & Instrumentation



Training Systems & Cutaways

Training Systems

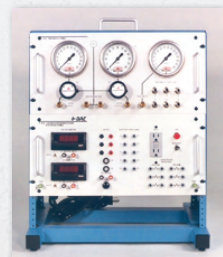


603-000 | 4-Variable Advanced Process Control

- Measures process variables including level, pressure, temperature, & flow
- Create cascade, feedforward, feedback, split range, ratio, and three-element control loops

616-000 | Portable Calibration

- Allows for convenient testing and calibration of instruments, process controllers, etc.



619-000 | Flow Measurement

- Working, large-scale, flow-related fluid process system
- "Open architecture" allows for installation of optional instruments

295-101 | Vertical Separator

- Reduced-scale, three-phase vertical separator
- Uses alternate production stream components, refined oil, air, & water



Also Available:

601-000 | Variable Process Control

- Measures process variables including level, pressure, & flow
- Create simple & advanced process loops

602-000 | Temperature Process Control

- Covers temperature measurement & control in industrial fluid process systems
- Configure control loops using feedback & feedforward control methods

605-000 | Analytical Process Control

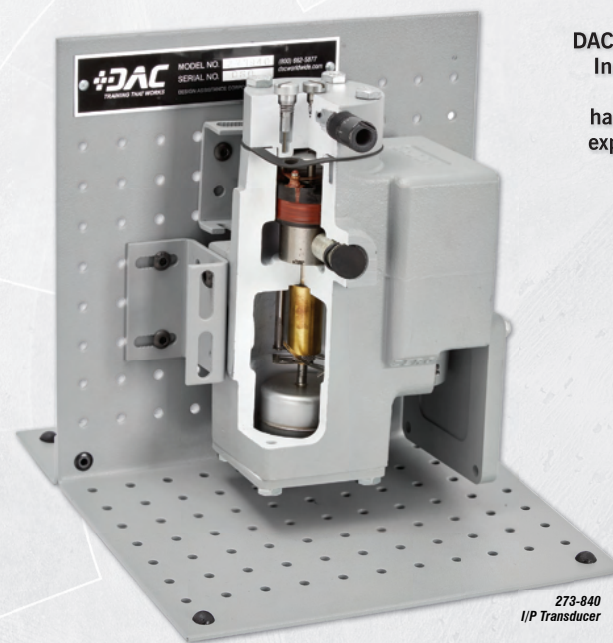
- Provides training for process variables relating to water chemistry
- Variables monitored include pH, conductivity, ORP, & dissolved oxygen



617-000 | Level Measurement

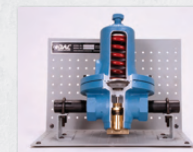
- Offers basic hydrostatic principles training
- Hands-on installation, calibration & maintenance of process field instruments

DAC Worldwide manufactures training systems & cutaways to teach hands-on skills in process control, process operations, and instrumentation.

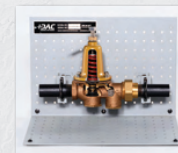


273-840
I/P Transducer

DAC Worldwide's Process Control & Instrumentation cutaways feature real industrial components that have been restored & sectioned to expose key internal components & their functionality.



273-110
Process-Type Pressure Regulator



273-140
Water Pressure Regulator



273-270
Pressure Gauge, Low Pressure



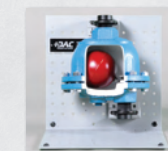
273-150
Gas Pressure Regulator



273-330
Dual Basket Straining System



273-415
Hydraulically-Operated
Diaphragm Valve



273-430
Ball Float Drain Valve



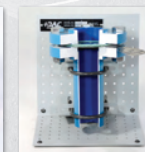
273-510
Rack and Pinion Pneumatic Actuator



273-520
Scotch-Yoke Actuator



273-610
Shell and Tube Heat Exchanger



273-737
Rupture Disk Assembly



273-740
Pipe Union Set



Oil Production Cutaways & Training Models

DAC Worldwide manufactures realistic, industrial-grade training systems, oil production skills. Our products provide unique teaching tools that

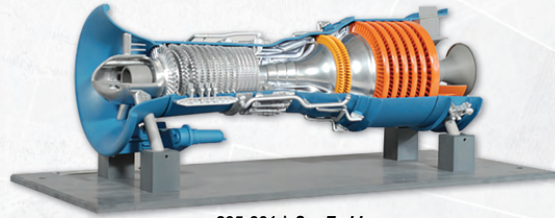
cutaways, dissectibles, & scale models to teach a wide variety of relevant give students a greater understanding of how these systems operate.

Models



295-115* | Vertical Cross-Flow Separator

*295-101-PAC | Vertical Separator Training System Plus also available



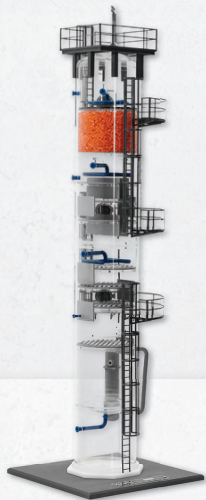
295-301 | Gas Turbine

DAC Worldwide's industrial scale models depict industrial systems and components in realistic detail.

Based on common equipment by industry leaders, models include all primary features, color-coded flow paths, and component cutaways that allow for easy viewing of internal components.



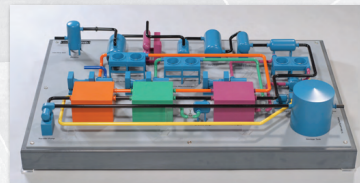
295-408 | Pumpjack



290 | Distillation Column



294 | Flare System

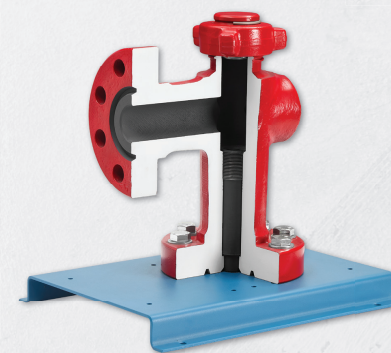


295-901 | Phillips Cascade Process (LNG) System

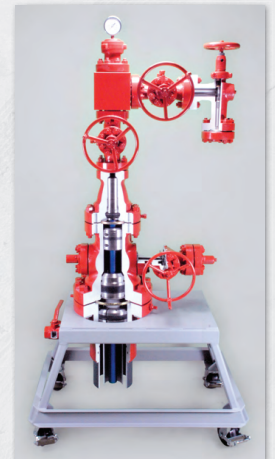
Cutaways & Dissectibles



295-719P | Pneumatic Surface Safety Valve



295-711 | Barrel Choke Valve



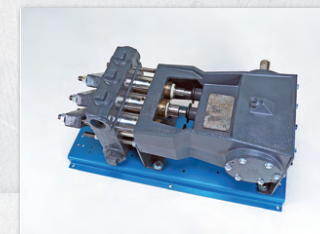
295-795E | Extended Wellhead Assembly

DAC Worldwide's industrial cutaways are real components that have been restored & sectioned to expose key internal components & their functionality.

Dissectibles allow users to disassemble, inspect, & reassemble components to teach hands-on maintenance skills.



295-704 | Oilfield Production Regulator (Big Joe)



295-418 | Representative Triplex, Plunger Mud Pump Dissectible



295-703 | Wellhead Backpressure Regulator

Heat Transfer & Steam Training Systems

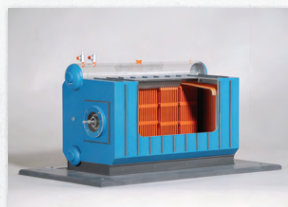


Models & Cutaways

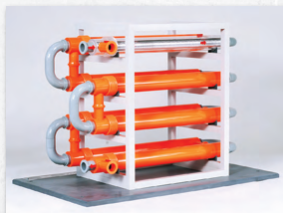
Models

DAC Worldwide's industrial scale models depict industrial systems and components in realistic detail.

Based on common equipment used throughout industry, models include all primary features, color-coded flow paths, and component cutaways that allow for easy viewing of internal components.



355 | Water Tube Boiler Model



281 | Annular Tube Heat Exchanger Model



289 | Vertical Thermosiphon Reboiler Heat Exchanger Training Model



287 | Multi-Pass Floating Head Heat Exchanger Training Model

DAC Worldwide manufactures realistic, industrial-grade training systems, cutaways, dissectibles, & scale models to teach a wide variety of relevant heat transfer & steam skills. Our products provide unique teaching tools that give students a greater understanding of how these systems operate.

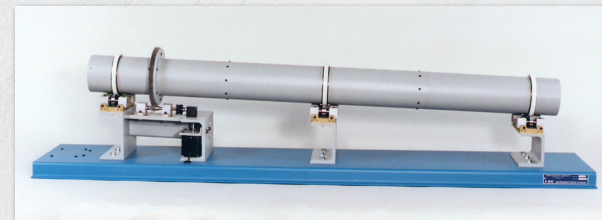
Training Systems

DAC Worldwide's industrial training systems feature real industrial equipment to provide a realistic, hands-on learning experience.

Built with full-size, industrial-quality components, these task-specific systems prepare students to perform effectively in the field.



238-000 | Heat Exchanger Maintenance Training System



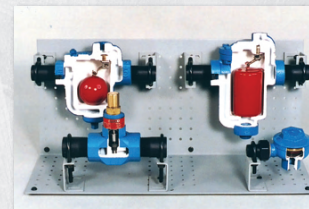
241-000 | Rotary Kiln Maintenance Training System



240-000 | Boiler Tube Trainer

DAC Worldwide's industrial cutaways are real components that have been restored & sectioned to expose key internal components & their functionality.

Dissectibles allow users to disassemble, inspect, & reassemble components to teach hands-on maintenance skills.



274 | Steam Trap Cutaway Assortment



249-PAC | Steam Turbine Dissectible

Cutaways & Dissectibles

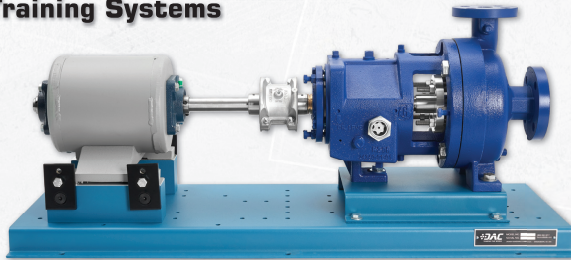


Pumps, Compressors & Valves

Industrial Quality Training Aids

DAC Worldwide manufactures a wide variety of training aids to teach hands-on skills in pump, compressor, and valve maintenance.

Training Systems



275E-PAC | Pump Maintenance and Alignment Training System Plus



250-PAC | Valve Packing Training System



277-PAC | Centrifugal Pump Fundamentals Training System Plus

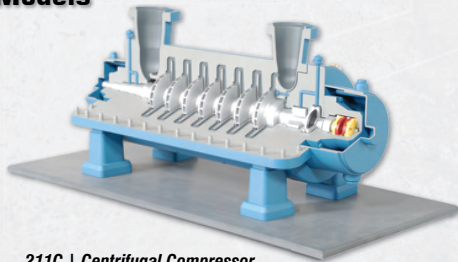


275-000 | Pump Maintenance Trainer

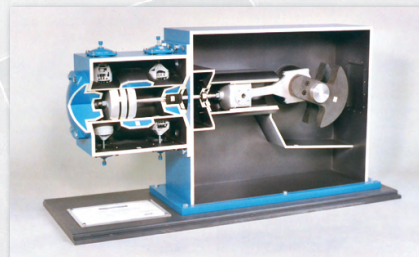


280-PAC | Pump Packing/Mechanical Seal Training System Plus

Models



211C | Centrifugal Compressor



211-000 | Reciprocating Compressor

Cutaways & Dissectibles



252 | Globe Valve Cutaway



253 | Ball Valve Cutaway



275-135 | External Gear Pump Dissectible

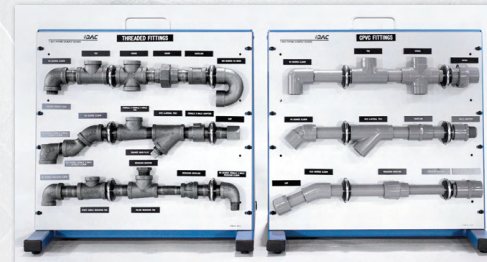


275-180 | Air-Operated Diaphragm Pump Dissectible



251 | Gate Valve Cutaway

Sample Boards



865-PAC1 | Piping Component



869-PAC | Pump Impeller

Also Available: Flange (864-PAC) & Hose and Coupling (868-PAC)

Wait! There's More!

VISIT OUR WEBSITE

Don't see what you need? We have many more systems, cutaways, and sample boards on our website at dacworldwide.com. Or call us and tell us what you need. Our Design & Build team can tackle topics unique to your training or presentation needs.

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CHALLENGE US

We enjoy doing things your way! When the standard solution is not the solution for you, count on DAC Worldwide to deliver!

Challenge us to deliver custom:

- Training Aids
- eLearning Assessments
- Technical Scale Models
- Simulation
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- Etc.




MEET THE FAMILY!

When working with DAC Worldwide, you are also gaining access to our family of companies. Our sister companies Amatrol and Bayport Technical have products that integrate seamlessly with ours. Our consultants can evaluate your training needs and offer a solution spanning across all three companies.



How To Get Started

GIVE US A CALL....

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When developing a new training lab or supplementing an existing one, communication is a great tool. Give us a call and let us assist with the process of equipment selection. We've helped schools and training centers around the world navigate the daunting task of finding the training system you need for your program. We'll suggest product options that are logical for your application and with consideration given to equipment and tools you may already have on hand.

VISIT WITH US

We always have an exciting array of projects and products in our manufacturing facility. Come meet the team and discuss our approach to the products and associated course materials. Share your special interests, or your custom project needs in the comfort of our offices.



**601 Heron Drive
Swedesboro, NJ 08085**

ALLOW US TO VISIT WITH YOU

We have representatives across the United States and overseas. We've found that our customer success rate and satisfaction is higher if there is direct contact. With this in mind, and if a visit to our facility is impractical, we are ready, willing, and able to visit you and discuss your needs, your program, and our products.



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