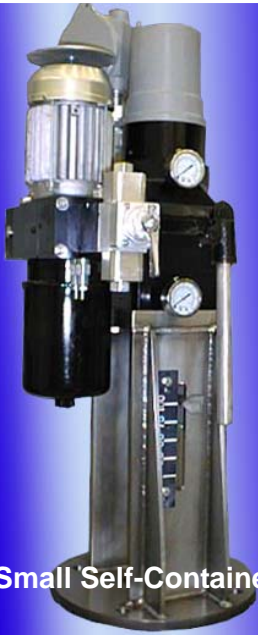




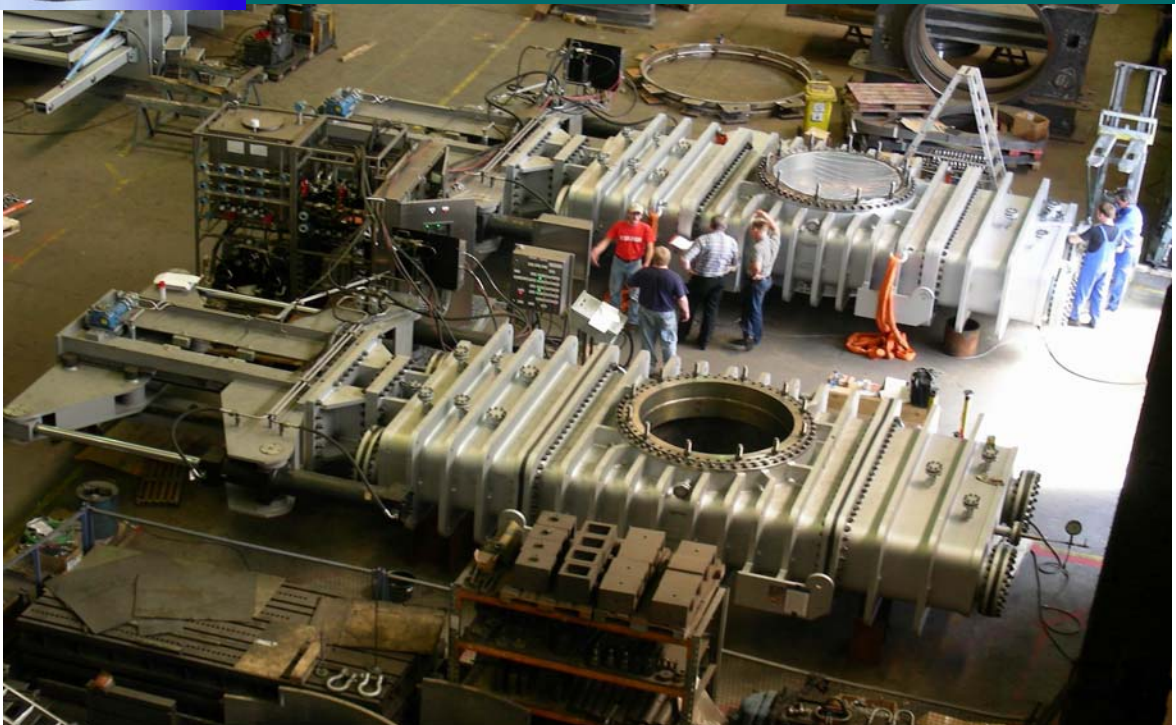
Electro-Hydraulic Actuators, Power and Control Units for the Coker

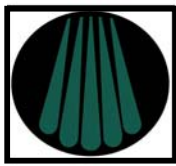
Innovative design . . . Unique field services and support



Small Self-Contained

- > Small self-contained units through large split-unit systems operating multiple actuators
- > Linear and rotary applications
- > Complete in-house design and manufacturing
- > Large staff of electrical and mechanical engineers
- > Extensive upgrading capabilities for existing systems
- > Unique, worldwide field service capabilities





blac inc.



About BLAC INC.

BLAC INC. engineers and constructs the highest quality electro-hydraulic linear or rotary output actuators, hydraulic controls, and hydraulic power units for industries throughout the world. Our actuator systems deliver **reliable long term continuous operation, unique features, and ease of maintenance.**

BLAC INC. products are **developed for severe service applications** that can cause other equipment to failure, such as:

- Low or High Temperature Ambient Conditions
- Environments Highly Contaminated with Dust, Catalyst, Coke Fines, Fly Ash, Corrosion or Acids
- High Humidity
- Severe Vibration

Using state-of-the-art components and construction methods, BLAC INC. personnel engineer all equipment with computer aided design, 3-D modeling, computer controlled machining centers, and in-house quality control from start to finish. BLAC INC. applications include:

Refining Applications

- Fluid Catalytic Cracking Units – Slide, Expander Turbine Butterfly, Plug Valves, Catalyst Dropout, and Goggle Valves
- Air Blower Surge and Stator Guide Vane Controls
- Wet Gas Compressor Suction Kickback Valve Controls
- Delayed Coker Unheading Valves, Vapor and Product Isolation, Switching Valves
- Digital and PLC-Based Controls
- Hydraulic Power Units, Hydraulic Control Units
- Stator Vane Actuators for Compressors and Air Blowers

Power Plant – Boiler Applications

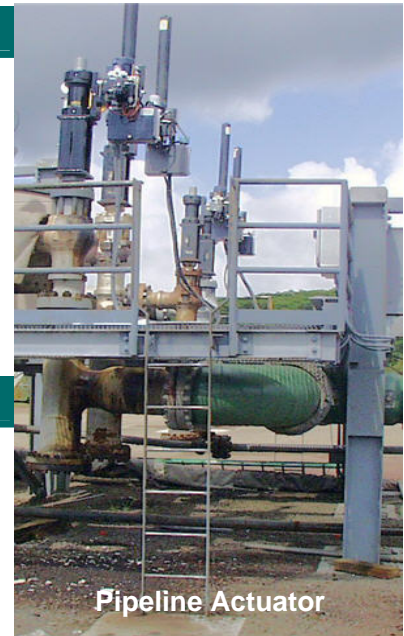
- Induced Draft and Forced Draft Fan Dampers
- Primary and Secondary Air Flow Control Dampers
- CE Boiler Corner Fired Tilt Drives
- Reheat and Superheat Spraywater Valves
- Gas Inlet and Boiler Feedwater Regulation Valves
- Startup Valve Actuator Systems
- Selective Catalyst Reduction Damper
- Inlet, Outlet and Bypass Dampers
- Fluid Coupling Modulating Drives

Power Plant – Turbine and Compressor Applications

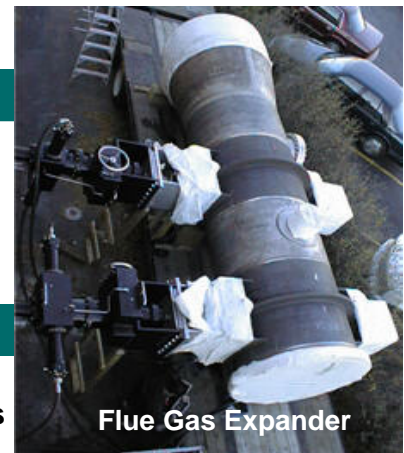
- Control Valves For Large GE, Siemens- Westinghouse,
- Delaval Steam Turbine
- Gas Turbine Fuel Control Valves
- Gas Turbine Inlet Guide Vane Actuators – All Brands
- Combined Cycle Steam Bypass Valves and Control Valves

Pipeline and Chemical Applications

- Pipeline Gas and Product Ball, Plug and Gate Valves for On / Off, Modulating, Multiple Failsafe Modes, Redundant Controls
- Pump Surge Pressure and Surge Control



Pipeline Actuator



Flue Gas Expander

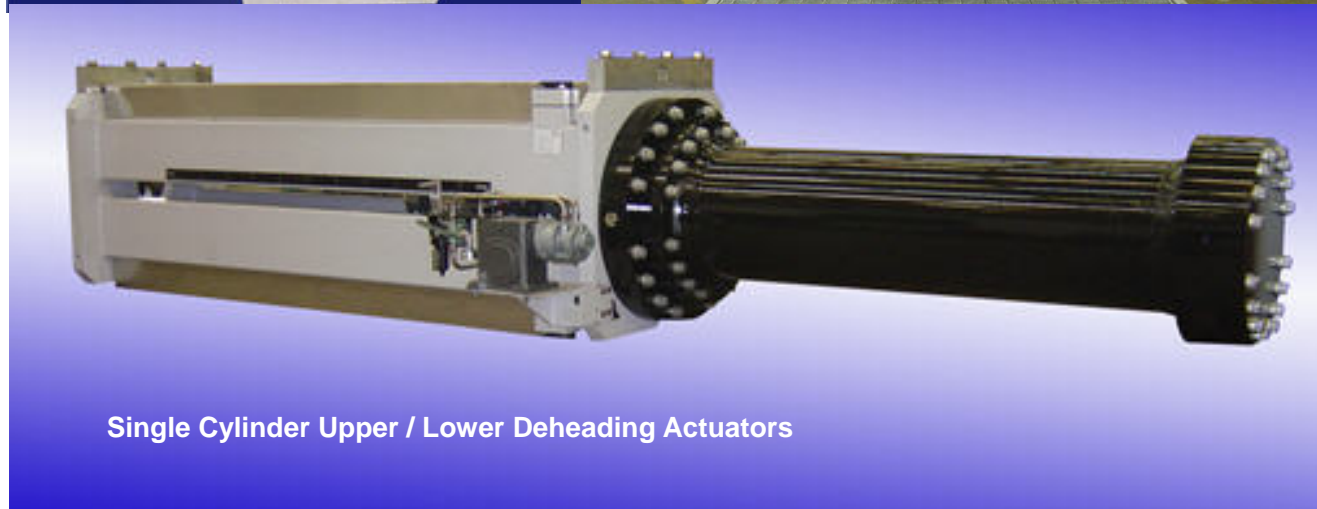
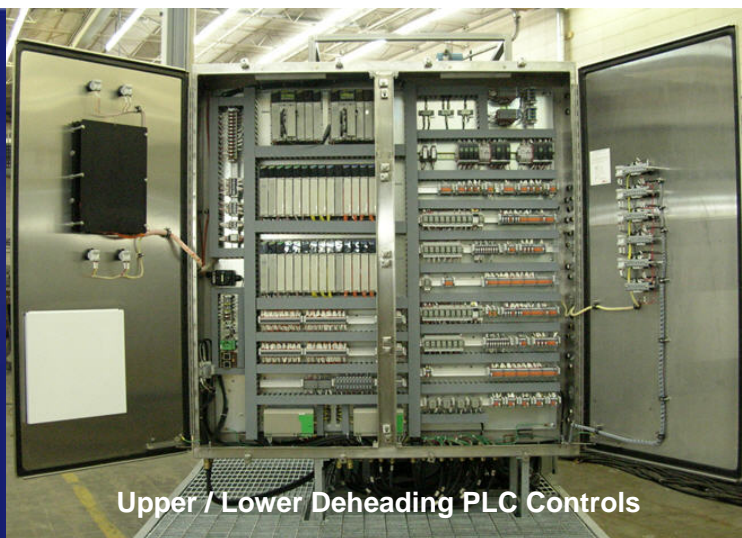


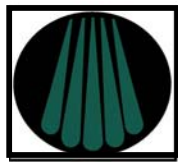
Delayed Coker Upper and Lower Deheading Actuator Systems

BLAC INC. is the new standard for coker deheading actuator systems. Present in our coker equipment is the same proven technology used in thousands of our FCCU applications.

- Redundant Mechanical Controls
- Redundant Electrical and Electronic Controls
- Ease of Maintenance
- Customizable Systems

- Upper and Lower Deheading Valve Systems
- Vapor and Product Isolation
- Switching Valve Actuators
- PLC-Based Controls
- Hydraulic Power Units





blac inc.



BLAC INC. – Unique in Field Services and Support

Available 24 x 7 x 365 for field service, parts, and manufacturing worldwide

- **Engineering** – 11 Staff Engineers including mechanical, instrumentation and DCS Interface
- **Documentation** – Includes updates to critical service manuals and drawings for all equipment manufacturers
- **Preventative Maintenance Program** – Proven long term program for continuous operation
- **Upgrades** – Existing upgrade designs for all equipment manufacturers
- **Planning** – Comprehensive Pre-Turn-around planning program
- **Manpower** – Available manpower for simultaneous turn-around without hiring contract labor
- **Job Site Repair Shops** – (2) 40' Portable repairs shops which may include filtration carts, pressure test carts, and on-site hose fabrication
- **Field Service Warranty** – Parts and labor repair warranty for repairs and upgrades performed during turn-around activities
- **Job Site Training** – Portable Actuator System Training Unit provides a fully functioning training system for plant unit operators and technicians.



Portable Job Site Workshops



Training Unit



Training Unit Trailer