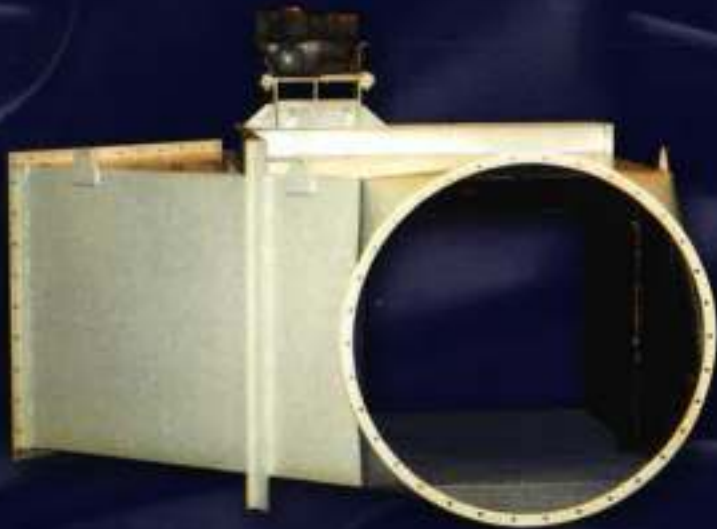
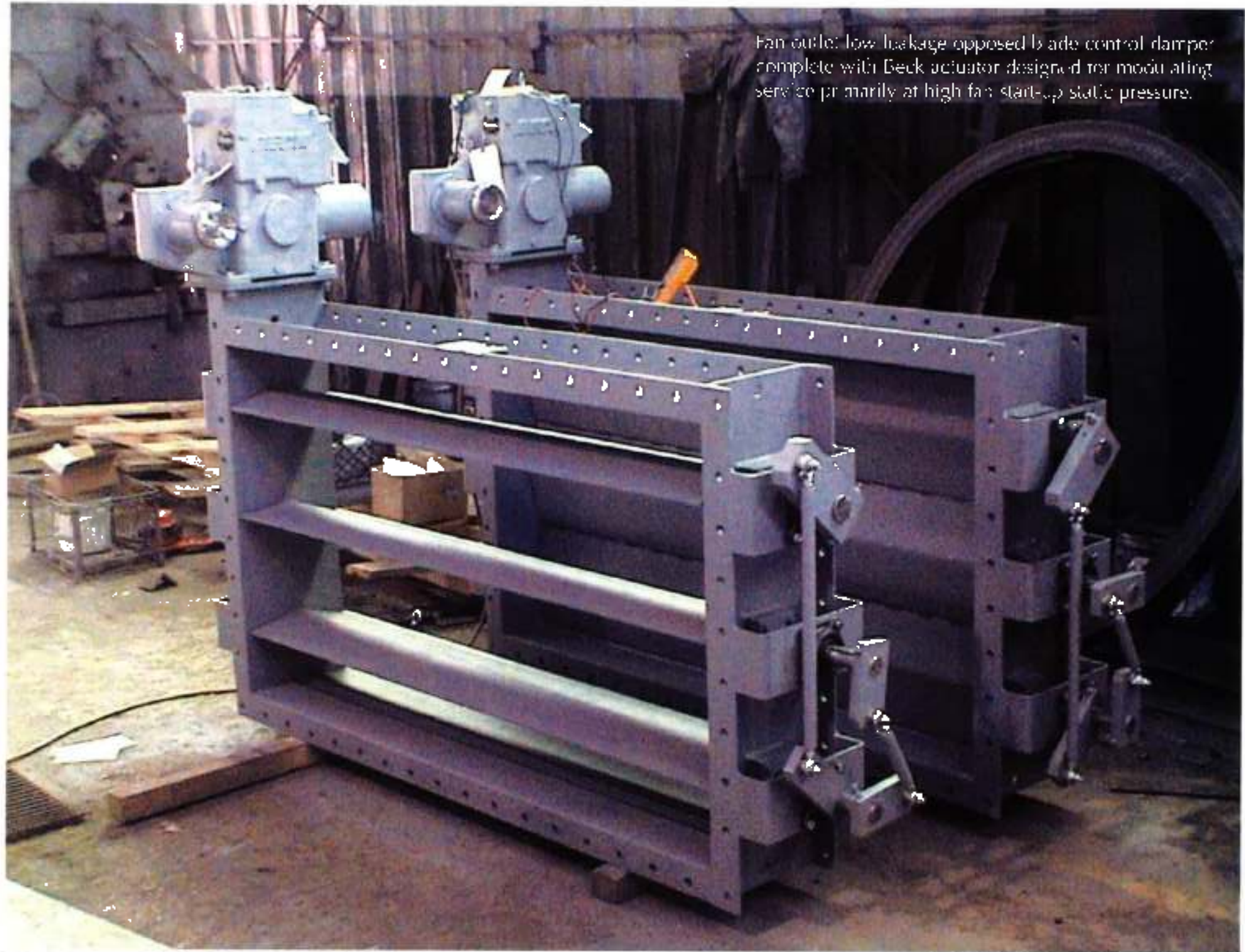


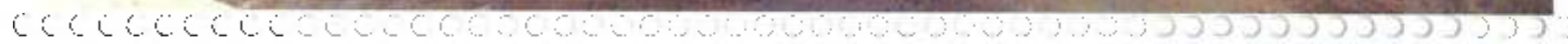


# DAMPER & CONTROL SYSTEMS





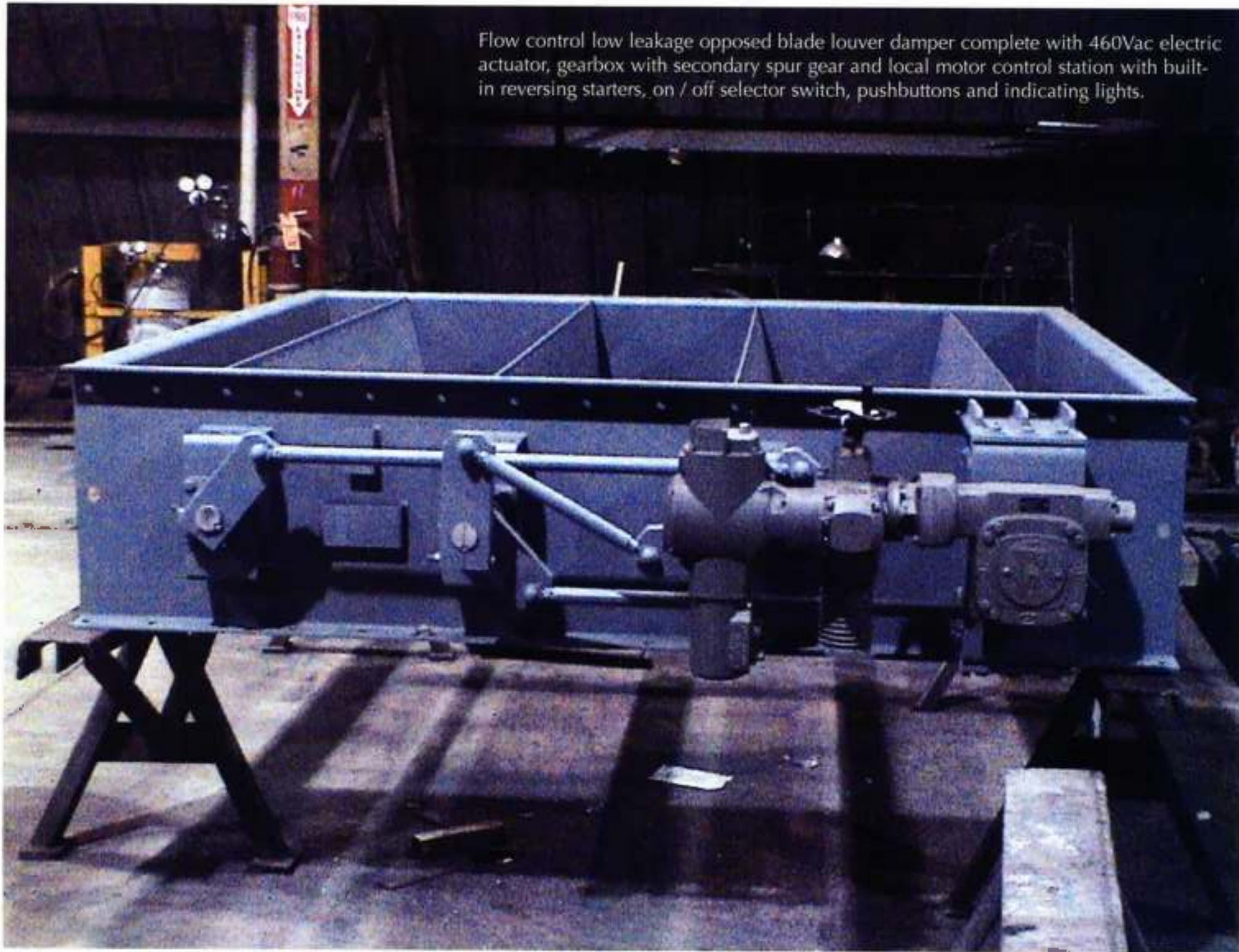
Fan outlet: low leakage opposed blade control damper complete with Beck actuator designed for modulating service primarily at high fan start-up static pressure.






Fire outlet louver door louver dampers consisting of coarsed blade control damper for modulation connected to existing Beck actuator and tight shut-off parallel blade isolation damper with full perimeter gase seals and bottom surge air chamber for seal air collection.

Flow control low leakage opposed blade louver damper complete with 460Vac electric actuator, gearbox with secondary spur gear and local motor control station with built-in reversing starters, on / off selector switch, pushbuttons and indicating lights.





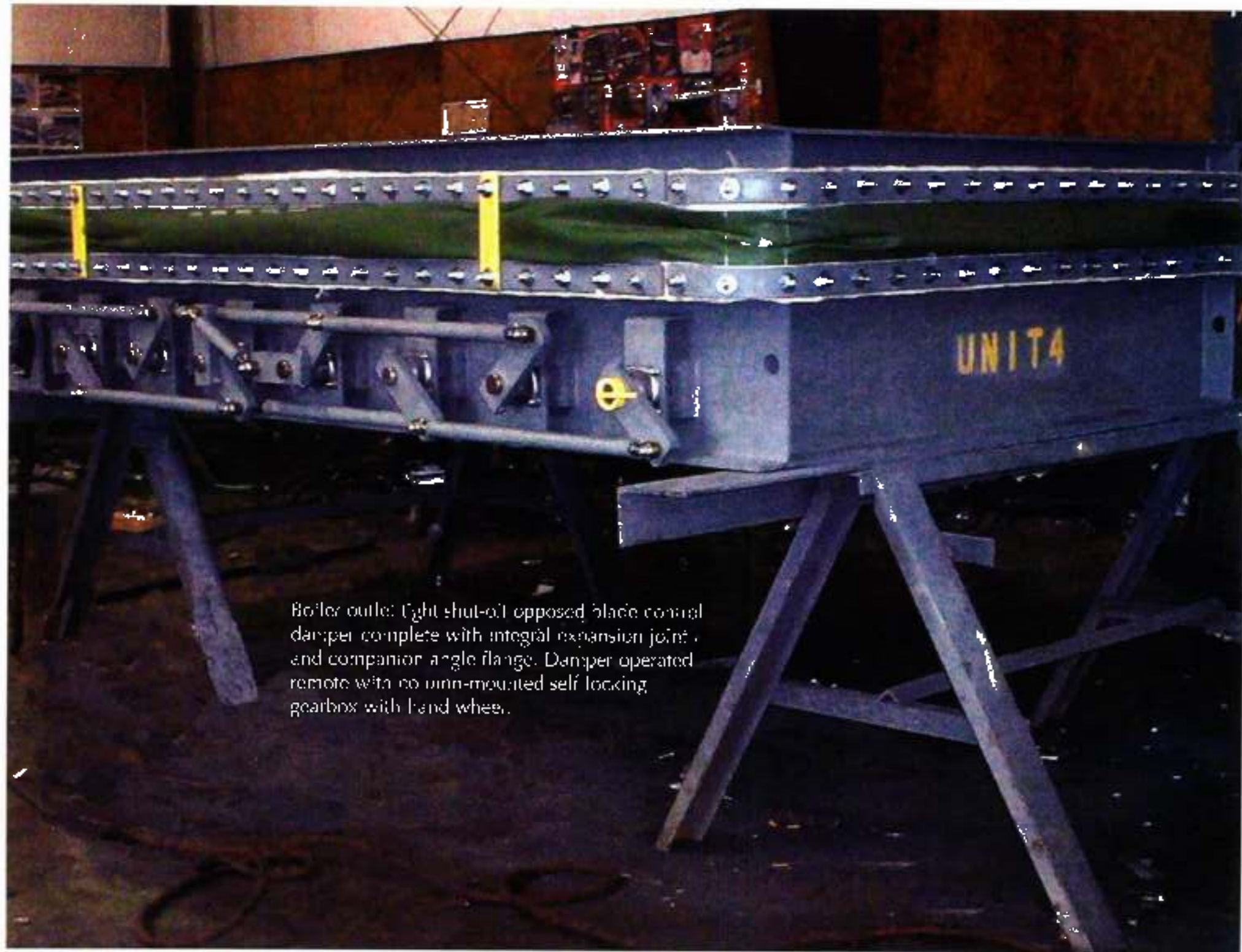
Fan outlet light shut off parallel blade louver dampers designed for high fan start-up pressure complete with full perimeter blade seal, spring-return pneumatic actuator, solenoid valve and remote end-of-travel switch. Dampers installed on tempering air fan with VFD drive.

A large industrial damper assembly is shown in a factory setting. The damper is a dual-compartment parallel blade louver damper, designed for modulating service to proportionally control or isolate outlet gas flow. It is complete with a spring-return pneumatic scotch yoke actuator, an electro-pneumatic positioner, and a remote end-of-travel switch. The damper is mounted on a blue metal frame with four sets of casters. A yellow pneumatic actuator is attached to the right side of the damper. The background shows a large industrial building with a corrugated metal door and a ladder leaning against the wall. A person is visible in the background near the door. The floor is dark and appears to be concrete. The lighting is bright, likely from overhead industrial lights.

Boiler outlet dual compartment parallel blade louver damper designed for modulating service to proportionally control or isolate outlet gas flow. Damper complete with spring-return pneumatic scotch yoke actuator, electro-pneumatic positioner and remote end-of-travel switch.



Doubled-baffle opposed louver damper 30" x 80" with full perimeter blade seals for leakage requirements less than 1% at 15" static pressure. Damper operated by spring-return pneumatic actuator with electro-pneumatic positioner for fail open service on loss of air and / or input signal.



Boiler outlet light shut-off opposed blade control damper complete with integral expansion joint and companion angle flange. Damper operated remote with coin-mounted self locking gearbox with hand wheel.





Multi-louver parallel blade inlet dampers 34" x 102" for double width lime kiln ID fan complete with adjustable crossover drive shaft. Damper frame lined with abrasion resistant plate. Damper airfoil blades constructed in abrasion resistant plate. Damper designed for fan start-up at 88" static pressure.



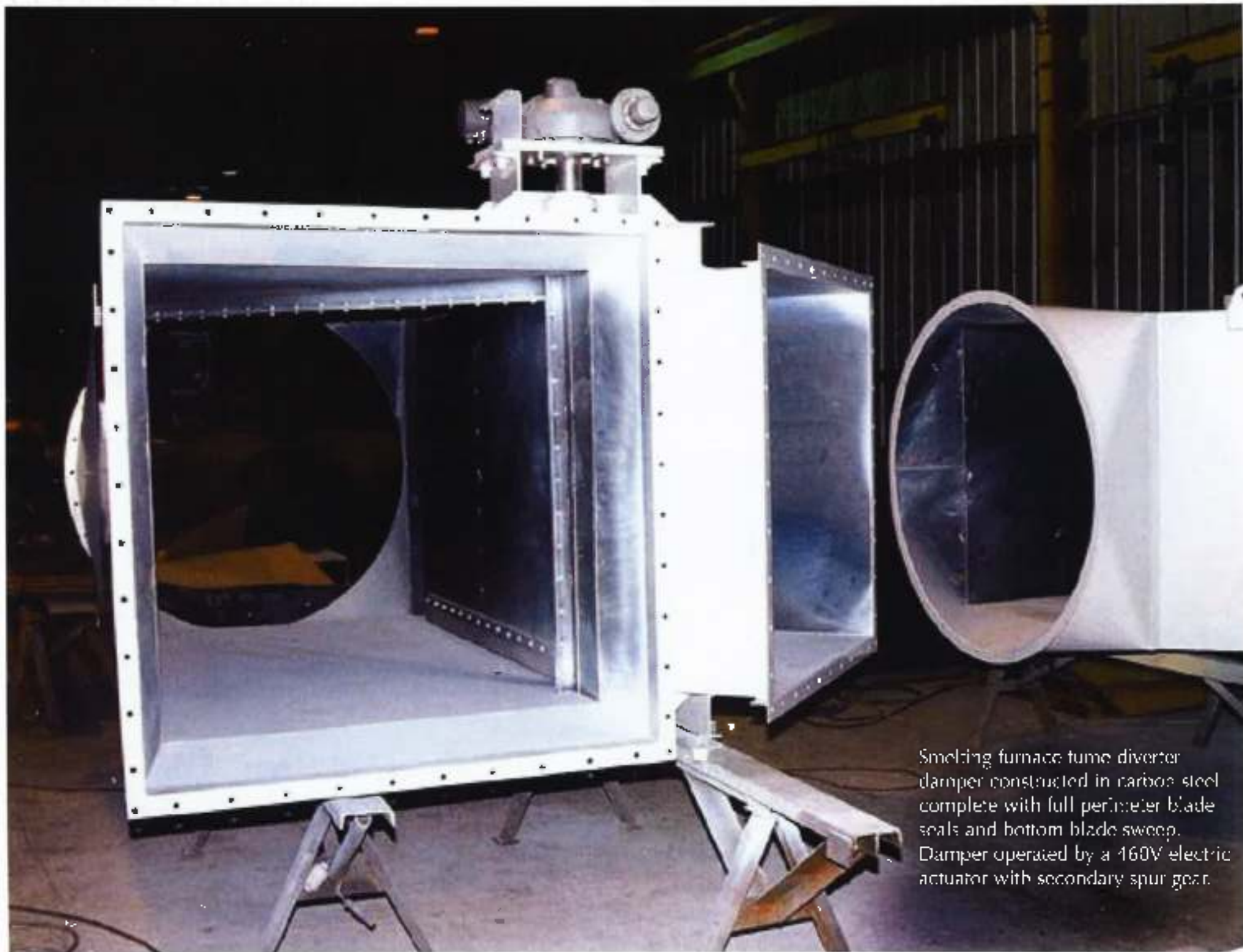
Double bladed scrubber-venturi damper 34" diameter constructed in type 316L stainless steel with chrome-carbide overlay plate on damper blades and internal housing. Damper operated by pneumatic linear air cylinder with 3-5 psi pos torser with end-of-travel limit switch.



Rectangular butterfly damper 44" x 72" constructed in carbon steel with internally insulated blades and housing complete with full perimeter tadpole blade seal. Damper operated by pneumatic scotch yoke type spring-return actuator with 3-15 psi positioner and 4-20 mA output.



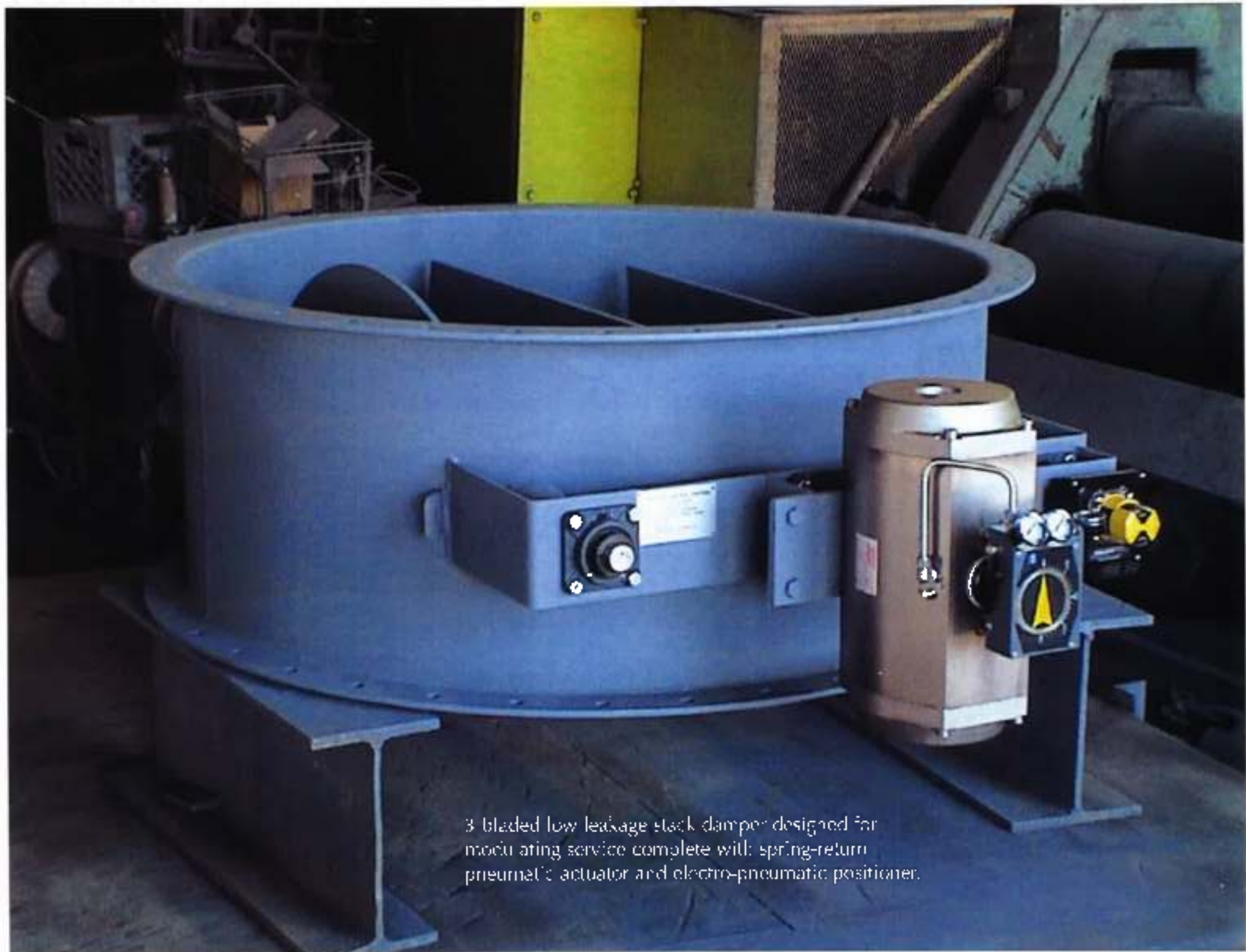
Round Tee diverter damper assembly complete with dual flanged butterfly dampers linked to operate in unison controlled by a spring-return pneumatic actuator with electro-pneumatic control positioner



Smelting furnace tune diverter damper constructed in carbon steel complete with full perimeter blade seals and bottom blade sweep. Damper operated by a 160V electric actuator with secondary spur gear.

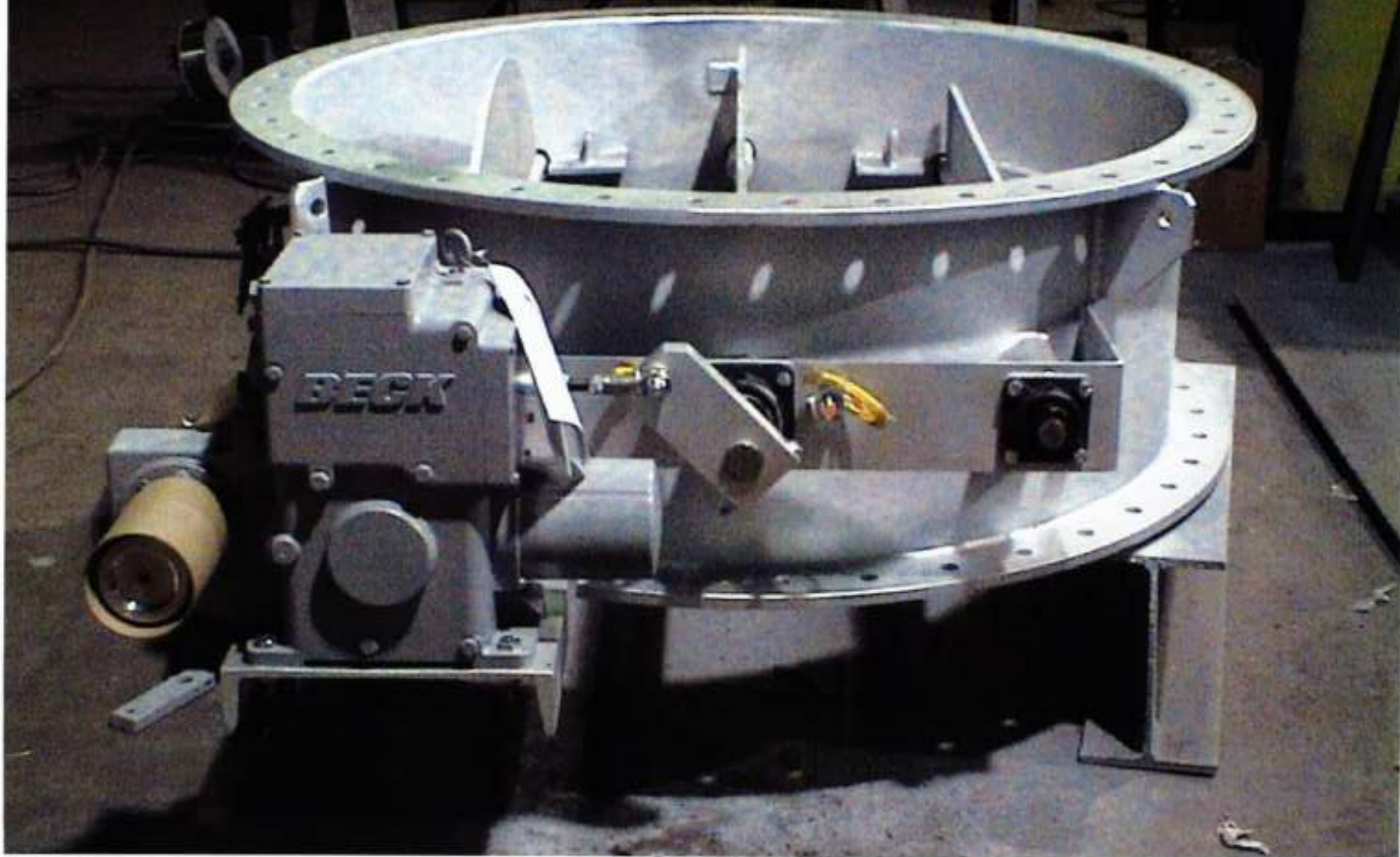


High temperature double butterfly diverter/damper assembly constructed in type 316 stainless steel for 1,600 degrees F service. Damper operated by independent 120V electric actuators remote-mounted in insulated enclosures for radiant heat protection.



3 bladed low leakage stack damper designed for modulating service complete with spring-return pneumatic actuator and electro-pneumatic positioner.

3-bladed low leakage stack damper designed for modulating service complete with Beck electric actuator.







Slide gate damper designed for zero leak service complete with dual blades, full perimeter stainless steel blade seals, purge air connection for floor-mounted blower, extension frame bonnet, dual machine screw jacks and electric actuator with local motor control station with built in reversing starters, on / off selector switch, push buttons and indicating lights.

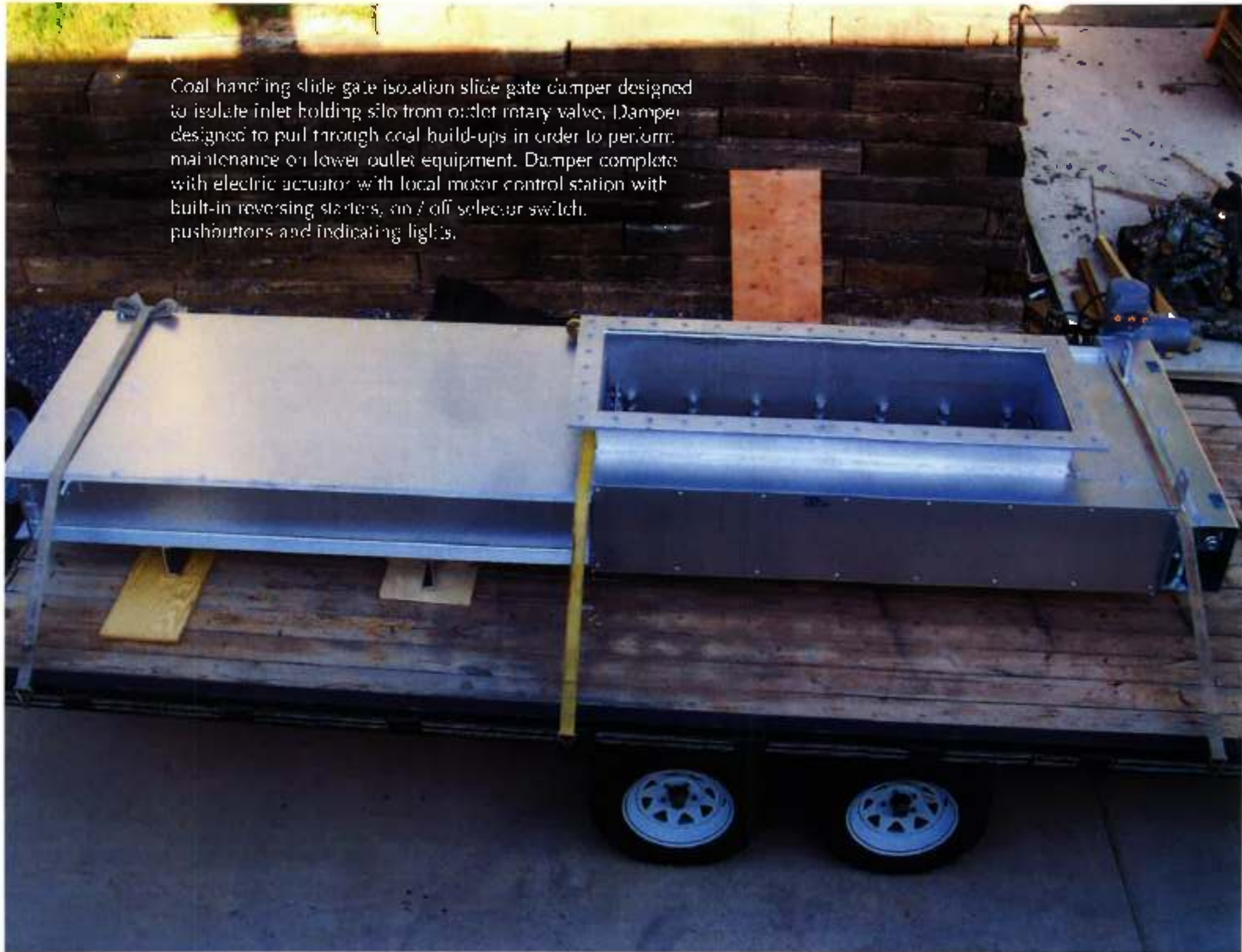


Slide gate damper constructed in carbon steel with type 304 stainless steel blade complete with full perimeter blade seals. Damper operated by a 460V electric actuator coupled to (2) 5 ton machine screw jacks.

Slide gate damper designed for zero leak service, complete with dual blades, full perimeter stainless steel blade seals, frame-mounted blowers, vibration joint, isolation water valve with solenoid controlled pneumatic actuator, dual machine screw jacks and electric actuator with local motor control station with built-in reversing starters, on/off selector switch, pushbuttons and indicating lights.



Coal handling slide gate isolation slide gate damper designed to isolate inlet holding silo from outlet rotary valve. Damper designed to pull through coal build-ups in order to perform maintenance on lower outlet equipment. Damper complete with electric actuator with local motor control station with built-in reversing starters, on / off selector switch, pushbuttons and indicating lights.





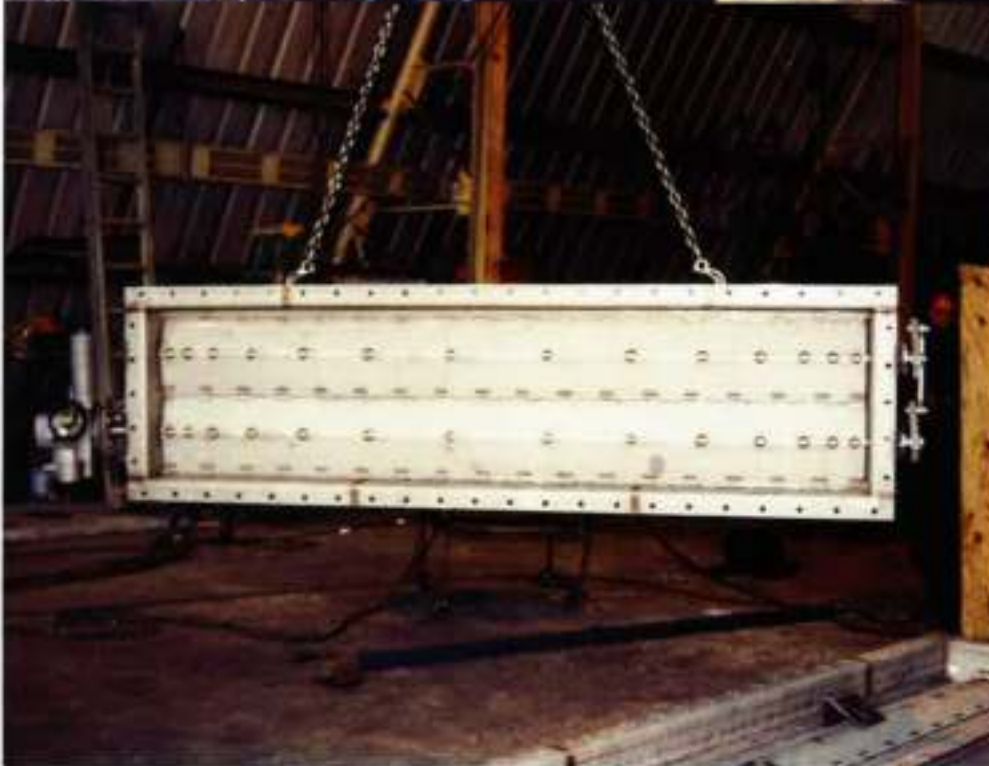
Slide gate damper 30" diameter constructed in carbon steel with abrasion resistant blade, internal adjustable blade seals and formed stainless steel atmospheric seals. Damper operated by a linear air cylinder controlled with an electro-pneumatic positioner complete with air accumulator tank for fail closed requirements on loss of air and / or power.

Boiler outlet and duct transition flange fabric type expansion joints designed for bolt in installation complete with dual flow liners, insulating gillow and high temperature multi-ply composite belt material





Boiler outlet flanged fabric type expansion joints designed for weld-in installation complete with dual flow liners, insulating pillow and high temperature multi-ply composite belt material.









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