

FIELD SERVICES

Our Field Services Division provides on-site services to keep your operation running smoothly and efficiently with a minimum of downtime. Our skilled technicians will work with your staff or handle maintenance and repair projects on a turnkey basis.

Support offered by Field Services:

- Alignment of crankshafts and frames
- Preventive maintenance
- Clean-burn upgrades
- Plant scheduled shut-down repairs and overhauls
- Assist customer personnel with maintenance and overhaul work
- Assist in planning scopes of work
- Quotations for all types of work



Major Overhauls—We perform major and partial overhauls on large engines, compressors, generating units, and other industrial equipment.

Emergency On-Site Repairs—We will reduce your downtime with specialized on-site repair services that take hours or days instead of weeks.

Clean-Burn Upgrades—Our technicians handle scheduling, disassembly, parts replacement, and reassembly.

Compressor Cylinders—Bore existing cylinders or remove and replace liners.

Crankshafts—Undersize and polish journals, and straightening.

Power Cylinder Head—Rebuild power cylinder heads.

Flywheel-To-Shaft Fit—Machine crankshaft/flywheel in place and reinstall.

Line Bore—Crankcase, saddle, and crankshaft alignment, mill cap landings.

Liner-To-Block Seat—Repair seal and seat fit.

Block Repair—Repair cracks using “Lock n Stitch” crack repair.

Wire-line Alignment—Measure alignment of crankshaft and camshaft bearing bores.



Optics—Measure alignment of engine and compressor frames.

Mechanical/Hydraulic Presses—Major/minor rebuilding of cylinders and pistons. Repair or replace worn parts. Extensive component restoration capabilities.

FOUNDATION SERVICES

Exline, Inc. can provide you with comprehensive foundation services through the Field Services Division in Odessa, TX.



- Foundation repair or complete replacement
- Inspection and evaluation
- Anchor bolt repair
- High speed skid grouting
- Piping pier modifications
- Bottle support repair
- Precision machine alignment
- On-site mechanical and machining service
- Pump base grouting



Save with Single-Source Supply and Responsibility—Get a complete package of services from a single source.

New Foundations to Demolition and Rebuilding—Whether you are planning a new field skid installation, a complete regrot, or have to demolish a severely cracked foundation, we can evaluate your site, offer advice, and get the job done right. Sometimes simple anchor bolt repairs or chock replacements are all that is required to fix what might appear to be a major problem.



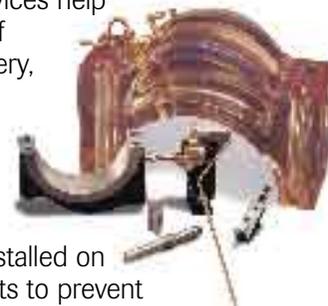
Inspection and Project Coordination—We will be glad to inspect your foundation and estimate your repair. With new foundation or replacement projects we coordinate all material orders and concrete services to speed completion and minimize downtime. All material selections and procedures are solidly based on expert engineering and best practices.

On-site Workforce—We can assist your location to supplement the workforce by providing a qualified technician(s) for the time frame you need support.



EXLINE PROTECTIVE DEVICES, AIR START DISTRIBUTORS, IGNITION SYSTEMS, CONTROLS

Exline Protective Devices help keep many types of production machinery, stationary engines, compressors, and other industrial equipment running safely with reduced risk of major damage. They can be installed on stationary or moving parts to prevent catastrophic failure.



Temperature-Sensitive Devices—

Pneumatic models use eutectic alloy materials that melt at precise temperatures to actuate a pressure drop in the control system and shut-down the unit.



Electrical Temperature Sensors—Devices with thermocouples can be used for constant temperature monitoring and unit shut-down.

Wear-Sensitive Devices—These devices signal excessive wear or motion on reciprocating or rotating parts.

Air Start Distributors

Exline-manufactured distributors eliminate dead spots and are ideal for remote or unmanned installations where positive starts are required. The Exline original pneumatic air start system has been popular and economical for over 30 years.



SaveAir®—the Exline Altronic SaveAir air start system provides state-of-the-art air savings. Reduces starting air consumption up to 70%. Overcomes “dead spot” issues. Reliable local and remote starting.



Ignition Systems, Controls, and Automation—Exline provides complete systems, including controls, control panels, flywheel drilling, and turnkey installation.

EXLINE EXPRESS IS AVAILABLE TO PICK UP AND DELIVER COMPONENTS DIRECTLY TO YOUR FACILITY



SAVE TIME AND MONEY WITH YOUR SINGLE SOURCE FOR REPAIR, REBUILDING AND MANUFACTURING

The repair services and components described in this brochure are only a sample of what we can do to keep your operation running smoothly and efficiently. For more information on our capabilities, access our website at www.exline-inc.com to download specific information or call today for our brochures listed below.

- Reciprocating Equipment Repairs
- Field Services
- Special Services On-Site and In-Shop Repairs
- Foundation and Grout Services
- ThermAlloy® and Thermex® Spray Coatings
- Industrial Repair, Redesign, and Manufacturing
- Protective Devices/Damage Control
- Ignition Systems/Starting Systems
- Turbocharger Repair

Call the Exline Information Hotline for Expert Consultation and Repairs

Call 800-255-0111
www.exline-inc.com

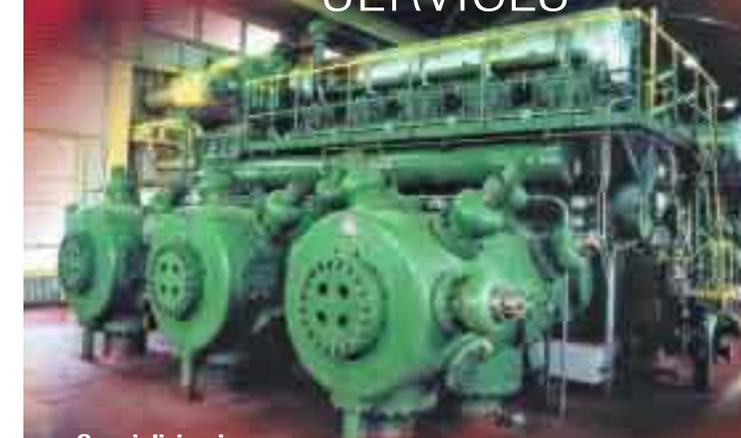
E-mail us: salesandservice@exline-inc.com
3256 East Country Club Road, P.O. Box 1487
Salina, Kansas 67402-1487
Fax 785-826-4425
785-825-4683



“Experience the Excellence”

Experience the Excellence

Make Exline
Your Single Source
for **Repair AND
Manufacturing**
SERVICES



Specializing in...

- Reciprocating Engines and Compressors
- Machine Shop Manufacturing and Repair
- Field Services, Turnkey Overhauls, On-Site Machining
- Foundation and Grout Services
- Ignition Systems/Starting Systems
- Protective Devices/Damage Control
- ThermAlloy® and Thermex® Spray Coatings
- Turbocharger Repair



FOUNDED 1872

The Engine and
Compressor
Specialists



REPAIR AND MANUFACTURING SERVICES

Our 125,000 sq. ft. facility offers complete machine shop capabilities. We can accommodate almost any size piece that can be transported. Equipped with large-scale turning, milling, and grinding machines, as well as the latest CNC turning and machining centers, we can handle virtually any repair project.

Surface Cleaning/Preparation—Steam, hot-dip caustic cleaning, as well as glass bead and grit blast surface preparation.

Machining—Large-shop capabilities—from turning and milling to large and small CNC work centers, in addition to manufacturing support and prototypes.

Grinding and Finishing—Large cylindrical grinding with diamond grinding and super finishing, and large bore internal grinding.

Thermal Treating—Stress-Relieve all sizes of components up to 10 ft. x 10 ft. x 14 ft. and 40,000 lbs. in our industrial furnace.

Balance Rotating Components—Impellers, shafts, rotors, large fans, and other rotating elements.

Equipment Redesign and Modification—Ranging from wear-, heat-, and corrosion-resistant coatings to resizing and conversion of two and three piece compressor pistons.

Production Salvage—Mismachined parts corrected with Thermex®, thermal spray coatings, machined or ground.

Straightening—Shafts, rods, and spindles.



THERMEX® COATINGS

Thermex® coatings extend the service life of old and new components and reduce your maintenance and downtime. Exline coated components often outlast the originals by a wide margin at a fraction of normal replacement costs. In addition, we have the machine shop and finishing capabilities to handle related work. You can specify the modifications to meet your exact parameters.



Thermex®—Thermal Spraying—We select from hundreds of metallic and nonmetallic coating options and five thermal spray processes to achieve the surface characteristics you require, such as abrasion resistance, lubricant retention, and corrosion protection. Thermex® coatings offer the advantage of high bond and internal strength together with low-temperature application.

ThermAlloy® Power Cylinders—Restore the I.D. of large bore power cylinders with ThermAlloy® and the O.D. seal/fit areas with Thermex® thermal spray coatings.



Eighteen month warranty.

LARGE ENGINE AND COMPRESSOR REPAIR

Exline offers you over a century of experience rebuilding major equipment for industry world-wide. Field-proven Exline repairs can reduce maintenance and increase operating life.

Transportation of engine and compressor components in need of repairs can be provided to our shop and returned during the same overhaul or turnaround.



Power and Compressor Cylinders—Restore bores with Thermex® or

ThermAlloy® spray coatings, resize, line bore, resleeve, hone, or grind. Repair cracks, seal areas, and valve seats.

Power and Compressor Pistons—Restore rings and rider band on compressor pistons, grooves, and provide scuff-resistant coatings for skirts for power pistons.



Compressor Rods—Rebuild or manufacture new, with the option of repairing with thermal spray coatings.

Connecting Rods—Restore crank and pin eyes on articulated rods and master rods. Rod straightening.

Flywheel/Crankshaft—Restore the crankshaft to flywheel fit area.

Bedplate and Mainframe—Complete inspection and checking of all components, machine decks, and liner fit areas.

Line Boring—Wire alignment, bearing cap/landing milling, thermal spray coatings to restore jaw fits and saddle boring.

Block—Repair cracked, pitted, or scored areas; restore liner fit and seal areas; repair damaged stud bolt holes.

Welding—Our technicians provide an exceptionally broad range of welding services for repair or fabrication—including MIG, TIG, oxygen/acetylene torch, and stick welding.



TURBOCHARGER REPAIR

The moment a Turbocharger is received, a documented quality assurance procedure begins. Inspections occur and a complete written record of measurements and findings plus photo records are compiled through each phase of the process. When the overhaul is completed, a written pictorial is sent and shared with the customer for future use.

- Individual component repairs
 - Turbine blade rebuilding and replacement
 - Nozzle ring repairs
 - Case damage rebuild
 - Shaft repair or manufacture
- Full service machine shop
- On-site removal and assembly of turbochargers
- State-of-the-art computer balancer with tighter tolerance than the OEM
- Liquid penetrant testing with inspectors trained and certified as Type 1, method A, Level II, per MIL-STD 6866
- Repair turbocharger and components to a “like new condition”
- New and remanufactured parts
- Thermex Wear Resistant Coating and repairs
- Exline Express Transportation Service

Experience, quality, and service.



INDUSTRIAL REPAIRS AND COMPONENT FABRICATION

Exline’s repairs and modifications give you better-than-new durability and performance on a wide range of production machinery. Thermex® thermal spray coatings can help you reduce inefficiencies and quality control problems that worn parts create. We manufacture replacement parts to cut your downtime. Limited-run manufacturing is also available to help with production scheduling.

Shafts and Spindles—Inspect, straighten, Thermex® thermal spray coatings, and finish to specifications.

Pump Pistons, Impellers, and Housings—Inspect, repair, restore size with Thermex® spray and precision balance impellers.

Mechanical/Hydraulic Presses—Complete rebuilding capability. Repair or replace worn parts as well as manufacture new components.

Replacement Part Fabrication—Build to qualified specifications with the added option of Thermex® thermal spray coatings recommended for your application.

Production Manufacturing—For large or small quantity production runs.

