

# Spare Parts for Engines, Turbines & Generators



If we don't Manufacture, we have a Data Base to Fast location of the Part we are looking for. We specialize in the obsolete or difficult to find parts..

- SPARE PARTS FOR W501FD3, MS5001, MS5002D, MS6001FA, LM1600, LM2500, LM 6000.
- ROTOR BLADES
- OIL DEFLECTORS
- BUSHINGS.
- ELECTRONIC CARDS FOR DIFFERENT ENGINE & TURBINE CONTROLS
- FUEL NOZZLES, FUEL NOZZLES ASSEMBLY & CAPS
- MECHANICAL , LABERINTH, SEALS
- FLEX COUPLINGS
- ROTORS
- O'RINGS, GASKETS, BOLTS, SCREWS, Hardware, etc
- TILT PAD, RADIAL, AXIAL, INNER-STAGE BEARINGS
- COMBUSTION LINERS & TRANSITION PIECES, CROSS FIRE TUBES, SHROUDS
- THERMOCOUPLES FOR DIFERENT ENGINES AND TURBINES
- IGNITION CABLES AND HARNESSSES
- IGNITERS AND SPARK PLUGS
- FUEL PUMPS, FUEL PURGE PUMPS
- SERVOVALVES. SERVOMOTORS AND ACTUATORS, ETC
- FLEXIBLE HOSES: COMBUSTION, FUEL.
- CIRCULATION PUMPS
- GENERATOR PARTS: BRUSHES, CONTACTORS, CIRCUIT BREAKERS, ETC
- INSTRUMENTATION: PRESSURE, FLOW, TEMPERATURE, LEVEL, TRANSMITTERS, ETC.
- TIME CONTROL AND MONITORING RELAYS
- EVENT COUNTERS
- GRAPHIC RECORDERS
- TERMINAL BLOCKS
- SOLENOIDE VALVES
- ELECTROVALVES
- HEATING RESISTORS
- VOLTAGE REGULATORS
- INVERTERS
- POWER SUPPLIES
- BATTERY BANKS
- INSULATION COMPONENTS
- WATER, DIESEL HEATERS AND TREATMENT VALVES
- BYPASS, CHECK, SAFETY, PURGE, SAFETY SHUT-OFF, AUXILIATY STOP VALVES
- WATER, OIL, HYDRAULIC OIL AND AIR FILTERS, STRAINERS AND ELEMENTS
- PIPING, TUBING, FLANGES AND LARGE DIAMETERS ELBOWS, TEES AND FITTINGS
- AND ALL THE OTHER SPARE PARTS DIFFICULT TO FIND



#### ADDRESS

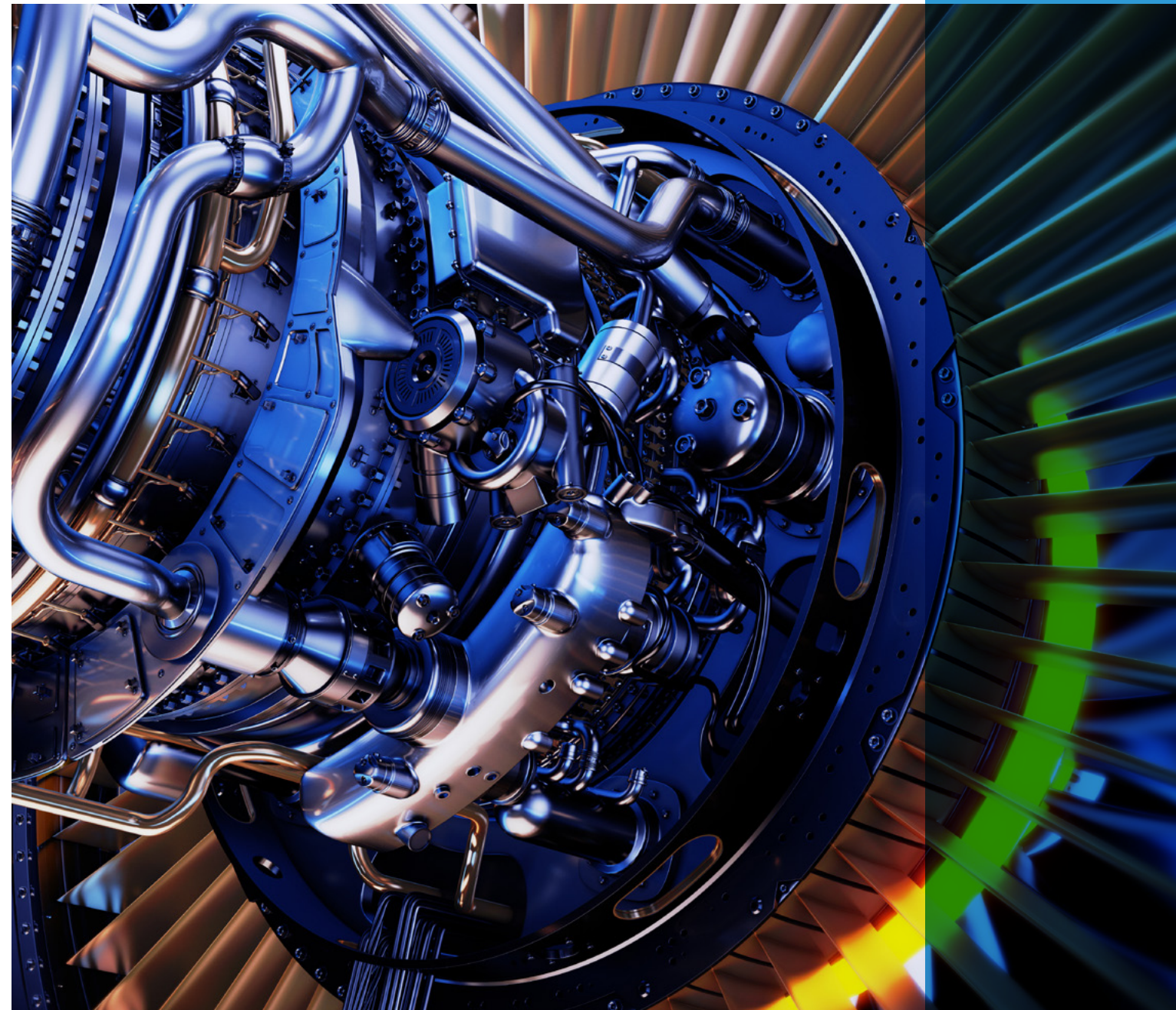
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APFELBAUM INDUSTRIAL  
**Power Generation, Aerospace  
& Aircraft Division**  
**Transmission &  
Distribution Division**  
**Renewables &  
Green Power Division**  
**Industrial Division**

# Who We Are

Apfelbaum Industrial, Inc. offers a complete range of products and systems for any industry. As an Apfelbaum client/partner you can rely on a comprehensive portfolio of products tailored to your needs. We provide the services from the construction, commissioning and Manufacturing. We believe in listening to our customers to discover their real needs, and meeting those needs with quality products, timely, accurate and efficient services and bottom-line savings. Efficient, well thought-out SYSTEMS help insure that good performance to meet your expectations. We've developed highly sophisticated systems and utilize the latest technologies, to effectively deal with the complex and expanding needs of our customer's state-of-the-art service and maximize the value to them. Solid systems and built on a powerful philosophy, can only work if the PEOPLE using these systems are of the highest caliber, and committed to SERVICE EXCELLENCE. We focus our efforts on the utility, telephone, oil and industrial companies, with such focus that our service will keep its fundamental characteristics of personalized attention with quality and opportunity. We keep permanent contact with the manufacturers in order to be up to date on technology application, which might be of use to our buyers; at the same time we try to strengthen our relationship with the end users job sites to know their point of view and their inquiries on the performance of the equipment.

Apfelbaum Commitment to Customer Satisfaction is at the center of all training and is demonstrated in our performance, We don't just sell products, we work to understand our client problems and needs and we do all we can to provide the solution to help them reach their goals. We have Branch companies in Mexico, Venezuela, Dominican Republic and sales representatives in many other countries. We have 4 divisions: Power Generation, Transmi- ssion & Distribution, Green Power and Industrial.

## Our 4 Divisions



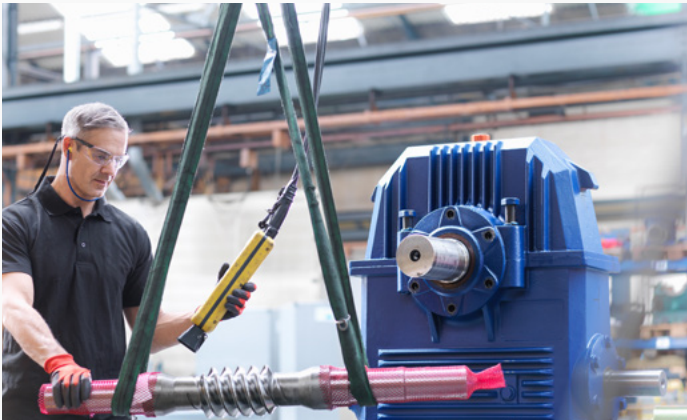
POWER GENERATION, AEROSPACE & AIRCRAFT DIVISION



TRANSMISSION & DISTRIBUTION DIVISION



RENEWABLES & GREEN POWER DIVISION

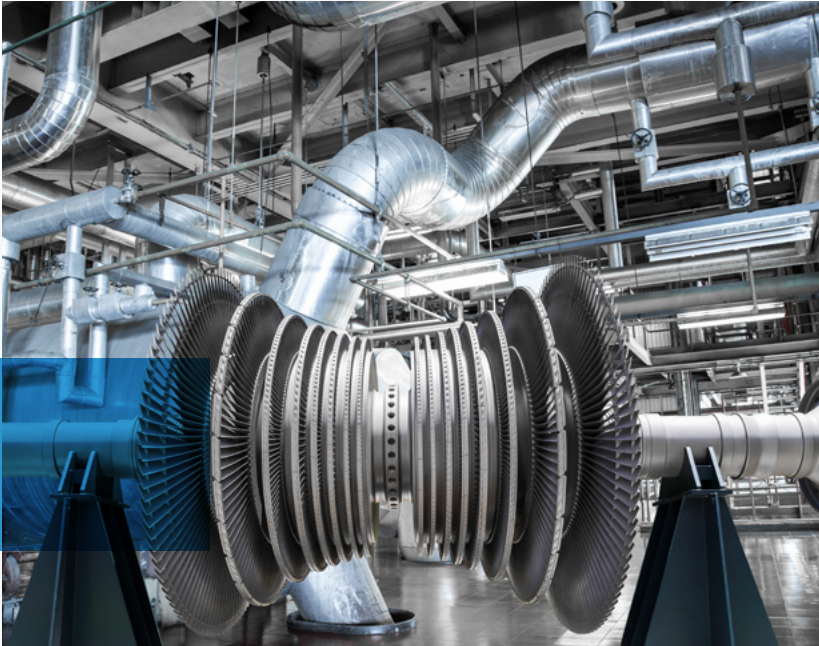


INDUSTRIAL DIVISION

# Power GENERATION

According to customer needs, we perform engineering, supply and integrate equipment and systems of high-efficiency that contribute to maximizing the process

- Turbines, Generators and Transformers
- High, medium and low voltage switch-gear
- Generator circuit breakers and Bus-ducts
- Unit and auxiliary protection
- Synchronizing, metering, measurement and control
- Rectifiers, inverters and batteries
- Change over devices
- Drivers and static frequency converters
- Emergency power supply
- Cabling and tray systems
- Lighting, grounding and lighting protection
- Communication and alarm systems.



## Engineering, Installation, Commissioning

Our qualified staff ensures the commissioning and starting up of equipments and systems in optimal time, encouraging customer participation in all processes, sharing experiences and knowledges.

Preventive, predictive and corrective maintenance to Power Equipment

- Video inspection for turbine, auxiliary equipment and generators.
- Measurement and analysis of vibrations.
- Application and analysis of non-destructive testing.
- All stages of Inspection and repairs for Simple Cycle Turbines ( Inspection chambers, Hpt gas Path and Major) and Steam Turbines.
- Troubleshooting and Analysis.
- Work and bid scope development
- Project Management: Turbine Project Management (Gas and Steam)Project Schedulers (Primavera P6, P5, P3, Microsoft Project, Suretrak, etc) Project Controls, Project Estimating, and Cost TrackingOutage Planning / Modeling

Preventive, predictive and corrective maintenance to Generators and Power Transformer:

- Test To Power Transformers, Instrument Transformers, Voltage Regulators.
- Test Of Insulation Power Factor
- Excitation Current Test
- Relation Of Transformation And Polarity Test
- Ohm Resistance Test
- Contact Resistance Test
- Reactance Of Dispersion Test
- Residual Humidity Test
- Saturation Test
- Insulation Resistance Test To The Windings
- Power Circuit Breaker Test
- Insulation Power Factor Test
- Contact Resistance In Power Circuit Breakers
- Operation Time & Simultaneously Closing/Opening
- In Power Circuit Breakers
- Electric Test To Bushings, Lighting Arresters, Disconnecting Switches, Single Or Group Operation.
- Hot Collar Bushing And Disconnecting Switches Test.

## Parts, Maintenance & Services

We have the buying power which allows us to negotiate the best terms to offer to our clients the best feasible technically and economic option. We have access of original equipment parts, new replacement parts, and overhauled and serviceable parts. If you can't find the spare parts let us know, we are expertise in hard to find spare parts.

## Convenient Location

Our strategic location in Southwest Texas border with Mexico give us the opportunity to deliver overnight the spare parts to any were into Mexico.

## Spares and Components

- Aircraft spare parts, accessories, components. Engines and systems
- Helicopter spare parts, accessories, components, engines and systems
- Accessories, components, engines & systems (assembled or dis-assembled)
- Shipboard spare parts, accessories, components engines, and systems
- All types fasteners, bearings, Washers, etc.
- Vacuum wands, Wafer handlings etc.
- Hydraulic Pumps.
- Fuel Pumps.
- Main and control Fuel Valves.
- Staring Systems.
- IDG (Integrated Drive Generator).
- Fuel Nozzles.
- Monitoring Systems.
- Bus Bars.
- Circuit Breakers.
- Connectors & Accessories.
- Fuses.
- Indicator Lights & Lamps.
- Relays & Accessories.
- Switches.
- Terminal Blocks & Covers.
- Attenuators & Bias Tees.
- Band pass Filters.
- Cable Assemblies.
- RF Connectors & Accessories.
- Detectors / Limiters.
- Directional Couplers.
- Double Balanced Mixers.
- Fiber Optic Cables & Components.
- Frequency Doublers.

## Consumables

- Spark plugs and cables.
- Brake linings.
- Engine air filters.
- Vacuum system filters.
- Heater and APU igniters.
- Fuel, oil and hydraulic filters.
- Turbine and jet engine igniters.
- Generator and alternator belts.
- Aero duct hose.
- Polishing cloths.
- Vibration System.

## Equitments

- Avionics Equipment.
- Cockpit and cabin equipment.
- Aircraft simulation systems.
- Aircraft Test benches.
- Antenna and Control Units.
- Up/Down Converters.
- Space link System.
- Telemetry Receiver.
- Modulator/Demodulators.
- RF and Microwave Systems.
- Frequency Converters.
- Gear box.

## Components

We can provide all types of Active and Passive Components specially MIL and Space Standard with all necessary Tests.

- SRAMs, FPGA, Micro Processors, Micro Controllers.
- Diodes: Schottky, Varactor, Mixer diode etc.
- Transistors: BJT, FET, MOSFET, MESFET.
- SMD chip inductor.
- Diodes.
- Chip capacitors.
- Chip resistors.
- Zener diode.
- Inductors.
- Integrated circuits.
- Strain Gauges etc.