

MAKE THE MOST OUT OF YOUR SEASONAL SHUTDOWNS.

PLAN AHEAD.

During the next seasonal shutdown, optimize your planned maintenance by having all critical parts in stock and get your G-M furnaces in tip-top condition for the next part of the year.



G·M ENTERPRISES

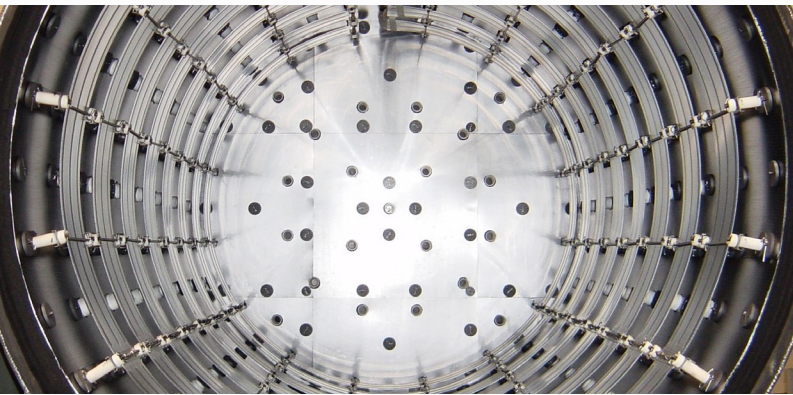
A NITREX COMPANY

From replacement parts and consumables to field and metallurgical services, G-M Enterprises, a Nitrex company, has you covered.

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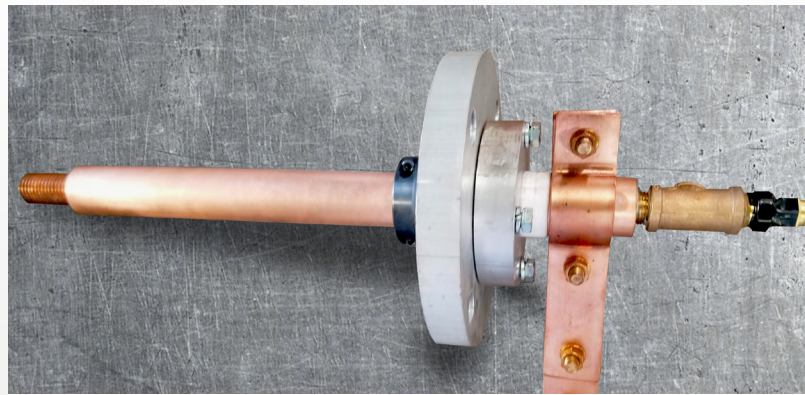
TIME TO CHECK THE CONDITION OF THESE PARTS

REPLACE IF NEEDED



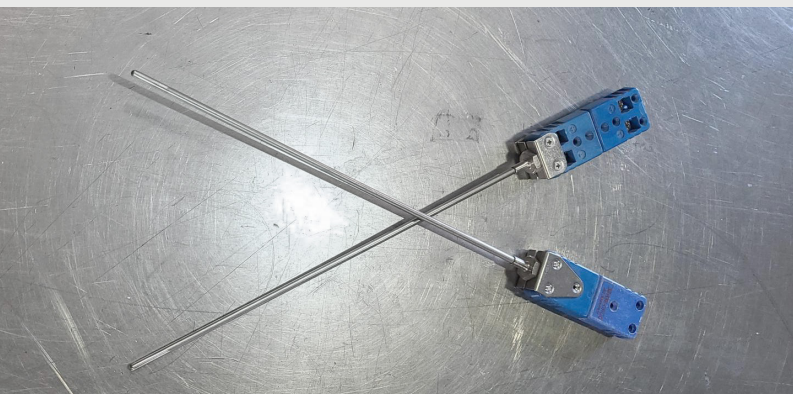
→ HOT ZONES

- Heating elements
- Element connectors
- Element hanger assembly
- Element supports



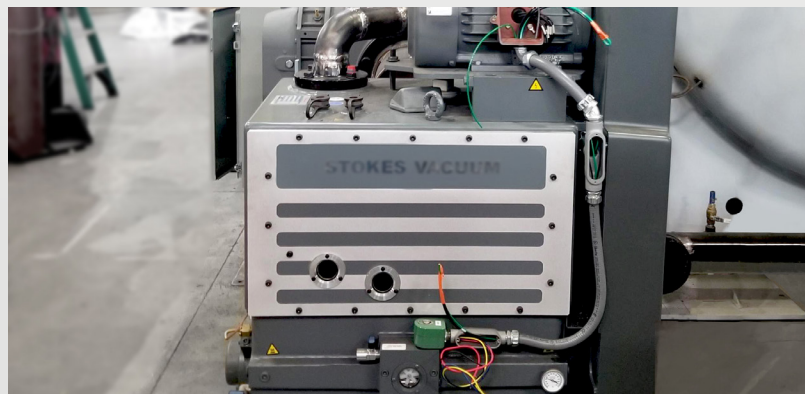
→ POWER FEED THRU

- Water cooled cables
- Copper
- PFT teflon



→ THERMOCOUPLES

- Control T/C
- Thermocouples
- Thermocouple jacks



→ PUMPS & MOTORS

- Holding pumps
- Roughing pumps
- Furnace motors & fans
- Heat exchangers

TIME TO CHECK THE CONDITION OF THESE PARTS

REPLACE IF NEEDED



→ CONTROLLER & WATER SYSTEM

- Control panels
- Water systems

→ MISCELLANEOUS ITEMS

- Furnace seals
- Fuses
- Grafoil washers
- Graphite nuts
- Graphite-threaded rods
- Insulator washers
- Insulators
- Lip seals
- Moly nuts
- Moly-threaded studs
- Pressure transducers
- Relays
- Vacuum gauge tubes
- Vacuum grease

FIELD SERVICES

- On-site preventative maintenance & equipment inspections
- Consumables
- Safety & control upgrades
- After-sales services
- And much more

REMINDER: CUSTOMERS WITH A MAINTENANCE AGREEMENT EARN A 5% DISCOUNT ON replacement parts and consumables. Complimentary remote and field support as well as metallurgical services are also included during the term of the contract.

YOUR G-M VACUUM FURNACE MAINTENANCE CHECKLIST

	DAILY	WEEKLY	MONTHLY	6 MONTHS	12 MONTHS
CALIBRATION					
Blank-off pressure at pumps				•	
Vacuum T/Cs			•		
Instrumentation				•	
INSPECTION & CLEANING / REPLACEMENT					
Door O-rings*					•
Belt tension on pumps				•	
Cooling blower motor – Power feed-throughs					•
Cooling blower motor – Main power cables					•
Hot zone – Fiber insulation/hot-face*					
INSPECTION / GREASING					
Door O-rings		•			
Door hinges				•	
Cooling blower motor – Bearing				•	
INSPECTION					
Visual inspection of furnace	•				
Change oil in mechanical pump*				•	
Change vacuum blower oil*					•
Leak rate chamber		•			
Element connections			•		
For 6-Bar or Greater: Heat exchanger unit, cooling motor and power feed – through contacts.				•	
Water flow	•				
Grease cups				•	
OTHER					
Clean diffusion pump and change oil*					•
Clean vacuum valves*					•
Bake-out furnace max-temperature*			•		
Clean chamber interior*				•	
Clean power supply					•
Tighten power supply connections					•
Change holding pump oil*				•	

*Or as operating conditions dictate.



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WORLDWIDE.**

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