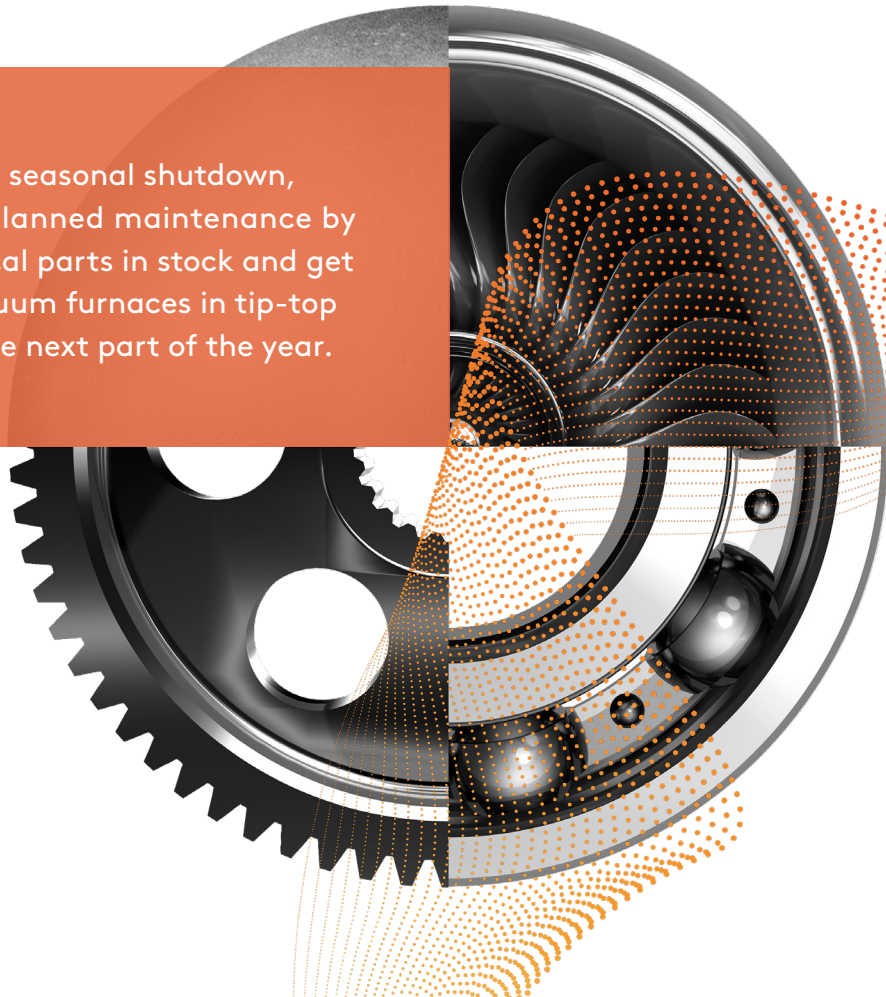


MAKE THE MOST OUT OF YOUR SEASONAL SHUTDOWN.

PLAN AHEAD.

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



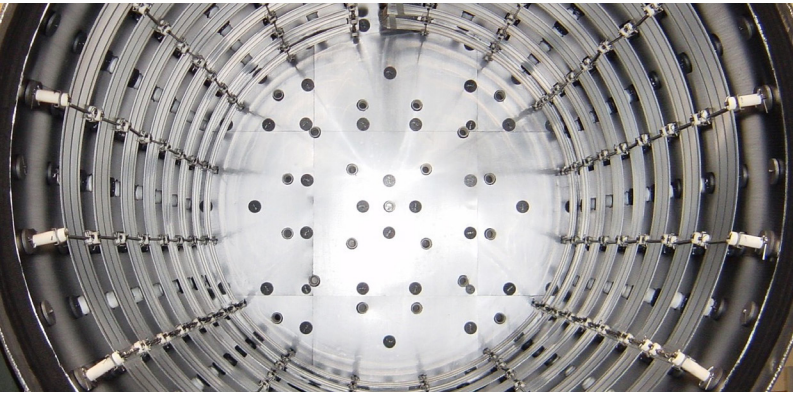
NITREX

From replacement parts and consumables to field and metallurgical services, Nitrex has you covered.

nitrex.com

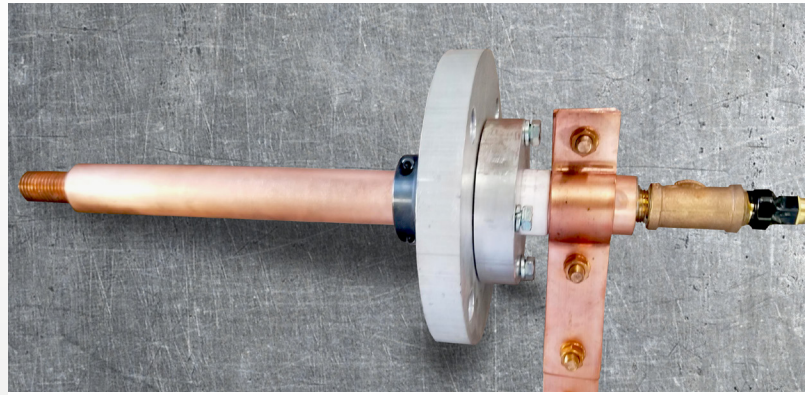
TIME TO CHECK THE CONDITION OF THESE PARTS

REPLACE IF NEEDED



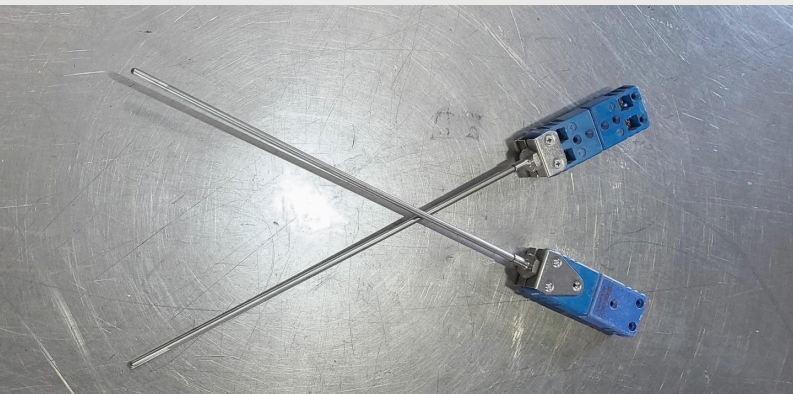
→ HOT ZONES

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



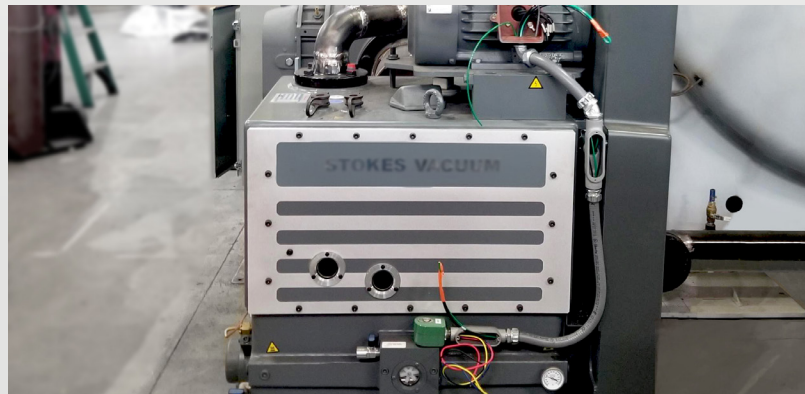
→ POWER FEED THRUS

- 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 NITREX 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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