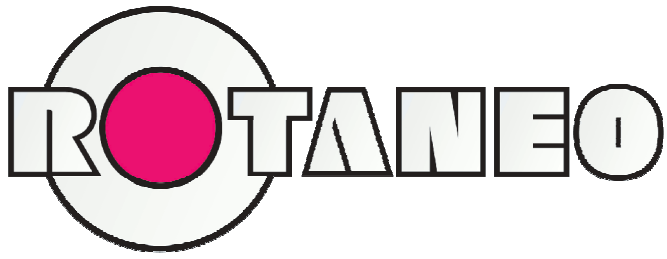


. . . Meeting all the demands
for your vacuum furnaces
hot zones . . .

Professional and experienced
partners for supplying:

- Graphite components
- Graphite insulations
- CFC Products
- Ceramic and molybdenum
- Service and reparations

About the company



ROTANEO is a general supplier of spare parts for vacuum furnace hot zones. Our portfolio includes graphite elements, graphite insulations, CFC parts, molybdenum and ceramic parts. Besides serving the customers in heat treatment industry, comprehensive production program of ROTANEO Ltd. includes also production of technical ceramics, special silicium carbide products and spare parts production for mechanical seals.

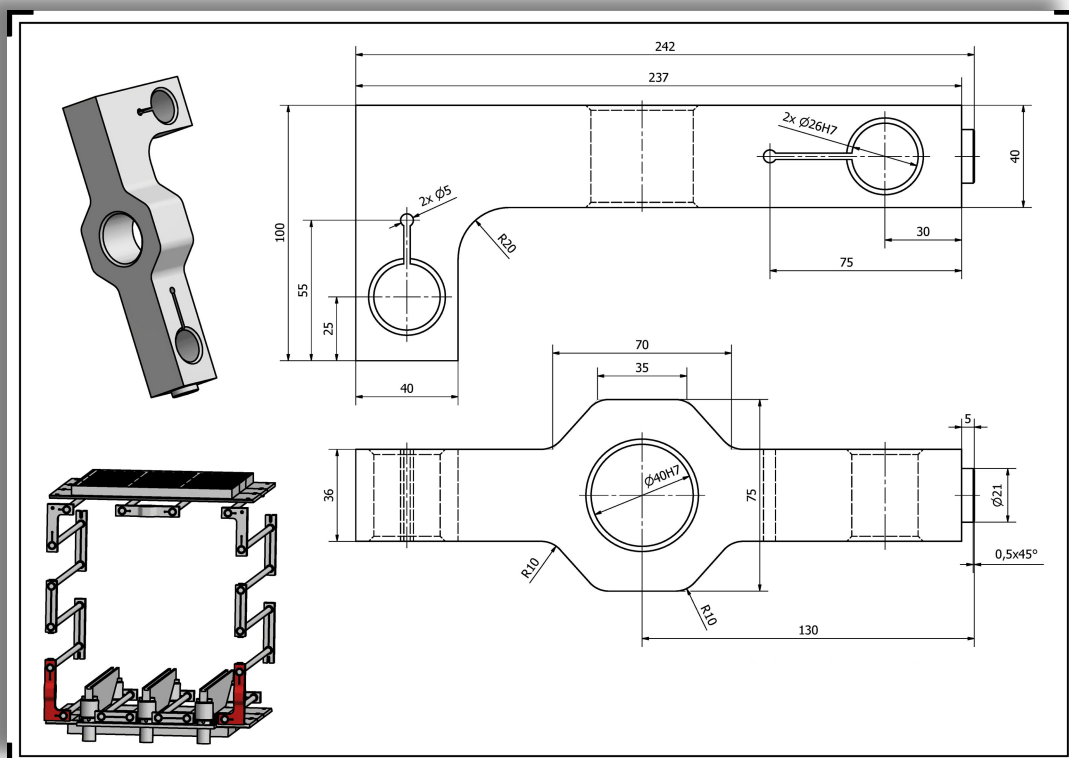
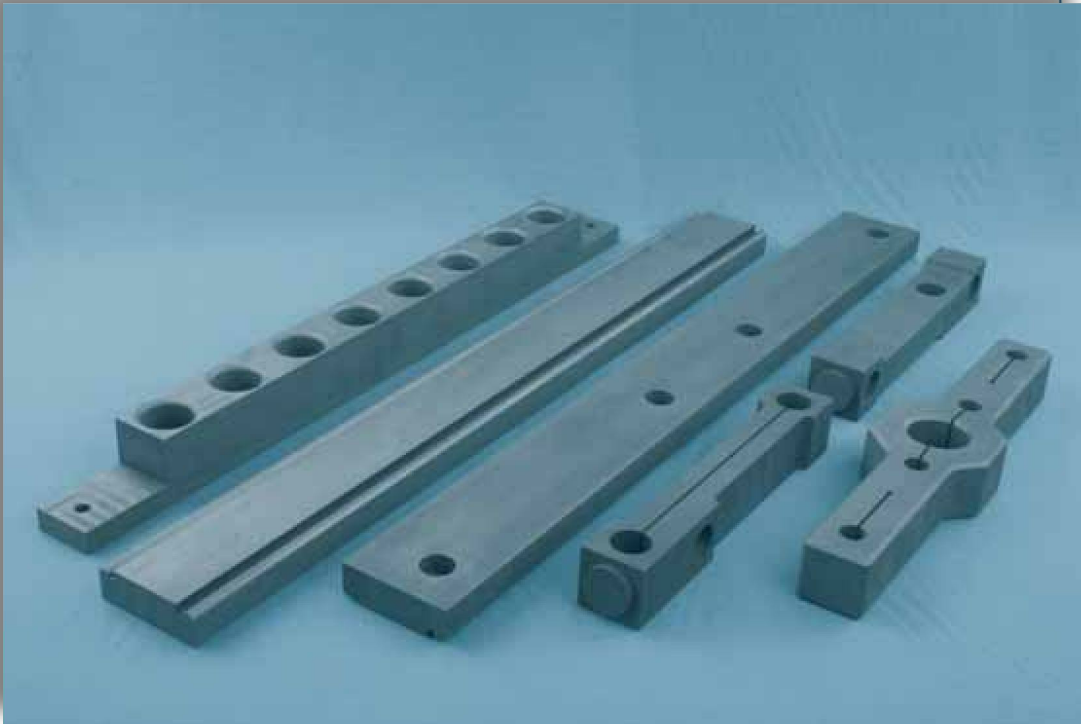
For vacuum furnaces we provide following services:

- Production of graphite parts (in cooperation with our sister company KOMPOZITUM): heating rods, bridges, transitions, tables, holders, heating elements in form of a basket etc. If the customer does not have the drawings, we draw the individual parts of the furnace upon his request.
- Deliveries of graphite insulating materials and of CFC elements: insulating plates, soft insulating felt, graphite foil, CFC elements (plates, screws, nuts)
- Ceramic and molybdenum elements for vacuum furnaces: alumina (electric insulator), molybdenum wires, rods, holder, plates
- Service and repairs of vacuum furnaces (in cooperation)

In every individual project, we can offer flexible approach to our customers – starting with inspection of the vacuum furnace, through preparing of the price offer, to complete drawings, production and delivery of spare parts up to the technical support. In cooperation we offer also installation of the spare parts and maintenance of the furnaces.

Graphite components

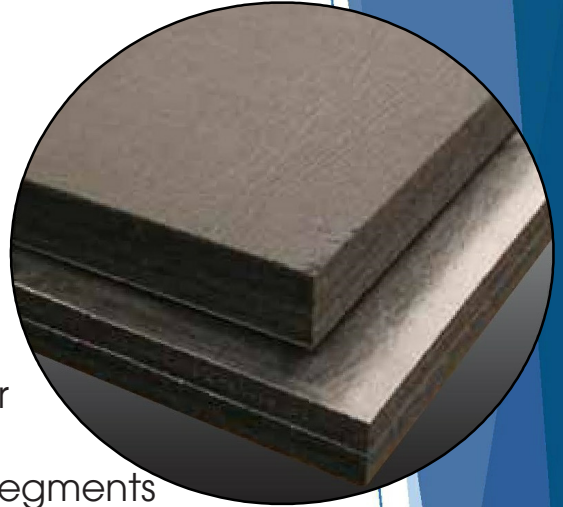
- Production according to drawing or sample
- Heating rods produced with uniform electrical resistivity
- The dimensions of graphite heating elements are custom trimmed to achieve the required electrical resistance within the specified tolerance. This is indispensable for the achievement of a homogeneous thermal field in high temperature equipment
- Consultations – right graphite material for your application (fine grain, medium grain)
- Delivery terms 3 weeks, in urgent cases after agreement production possible even in few days



Insulations

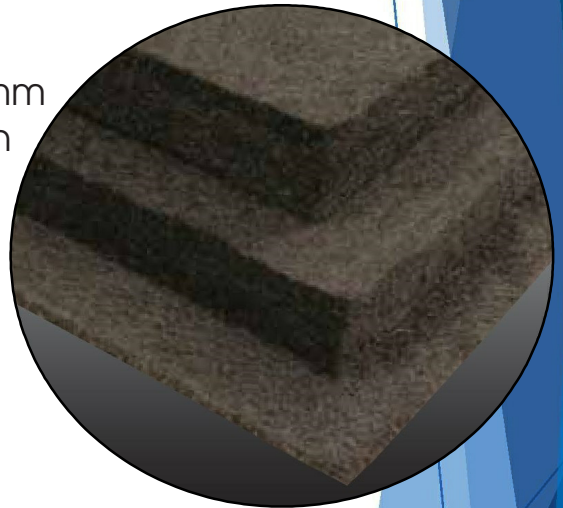
Graphite boards

- Standard dimension of rigid boards 1500x1000x40mm always on stock, other dimensions available upon request
- Types – one/both sides graphite foil, one/both sides CFC
- Serve as insulations in vacuum furnaces: mounted on the inside of heating chamber
- Supplied in form of boards, cylinders and segments



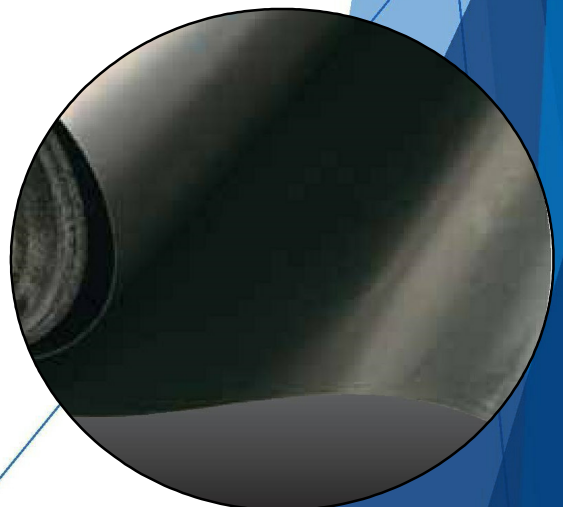
Graphite soft felts

- Standard dimension of soft felts 5 and 10 mm thick (1000mm or 1200mm wide) always on stock, other dimensions upon request
- Used as insulation in furnaces with round profile, used mostly in combination with graphite foil or plates



Graphite foils

- Standard dimensions of foil 1mm thick (1000mm wide) always on stock, other dimensions available upon request
- Serve as heat shield, sometimes used as penetrated for good gas permeability



Ceramic parts

Ceramic parts in vacuum furnace serve as:

- Electrical insulation of heating elements
- Support elements
- Ceramic coatings to prevent contact with graphite



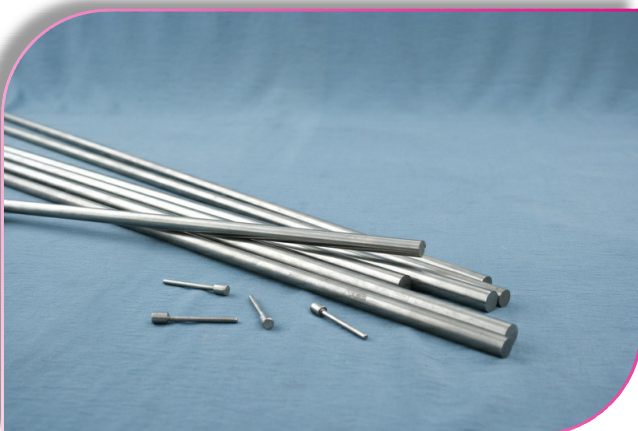
Molybdenum parts

Types of molybdenum elements:

- Wire
- Rods
- Plates
- Nuts
- Screws

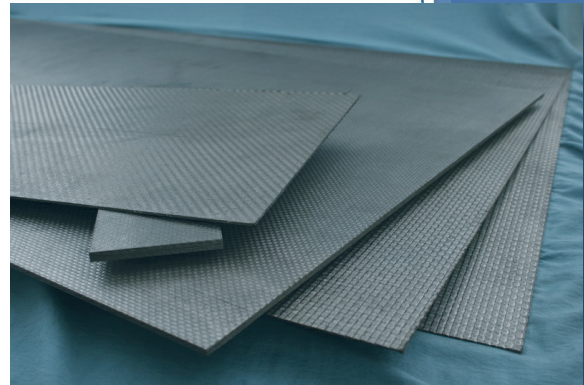
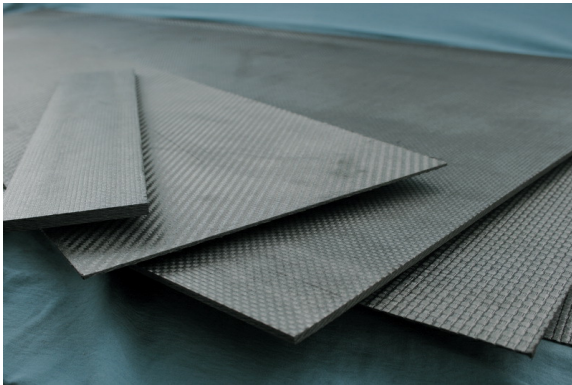
Molybdenum wire Dia 1mm, 1,5mm, 2mm and 3mm—always on stock

Molybdenum rods Dia 6mm, 8mm, 10mm and 12mm—always on stock

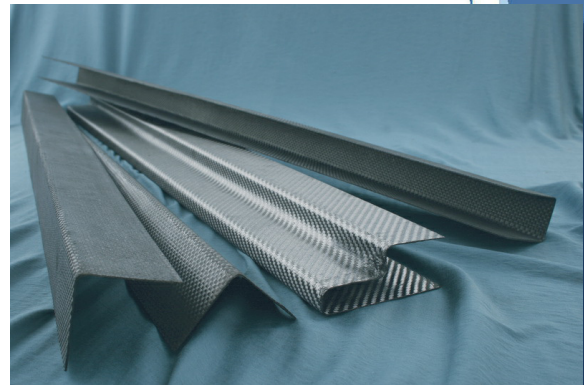


CFC elements

- CFC plates – protection of insulations against mechanical damage inside furnace



- CFC U,L profiles – protection of insulation edges against mechanical damage



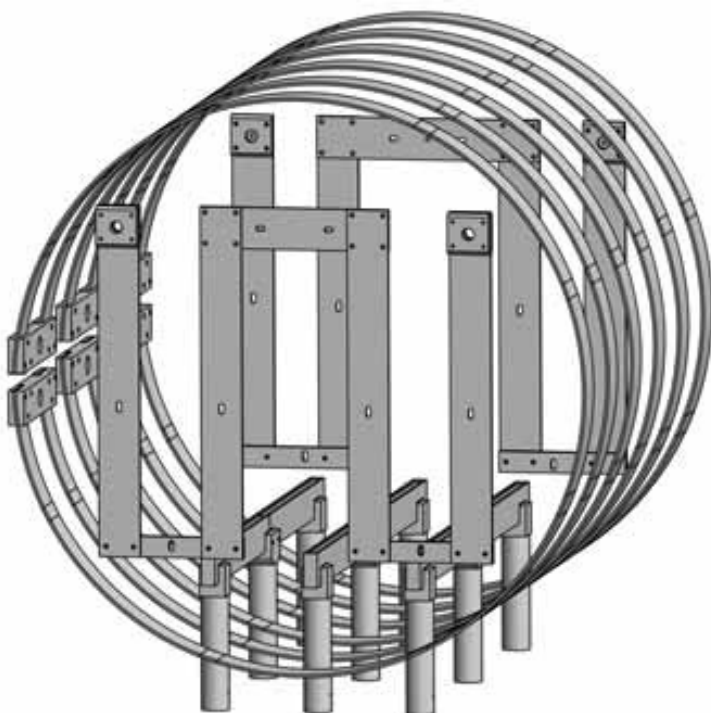
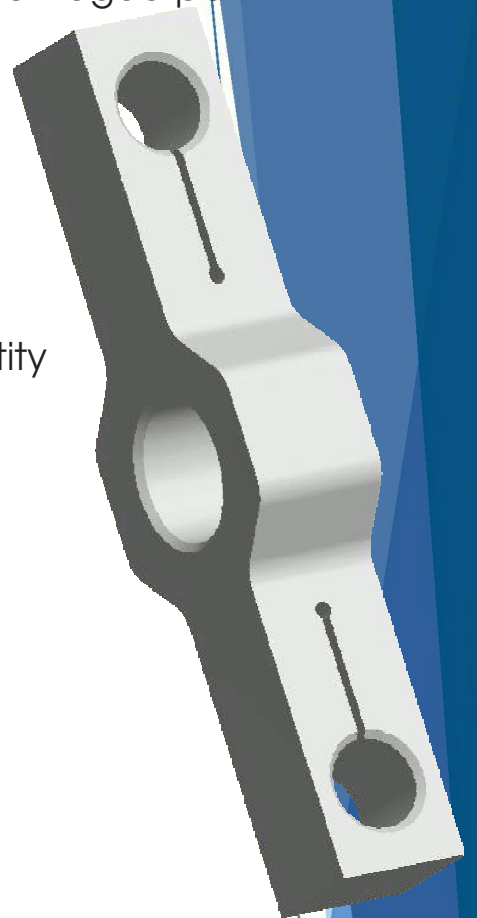
- CFC threaded rods and nuts – fastening of rigid boards, graphite holders, CFC components etc.

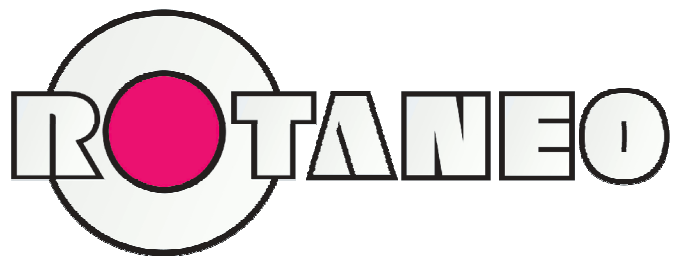


- CFC grids – lighter than steel, do not blend. After agreement with costumer is it possible to supply CFC racks with ceramic coating on CFC topplate (aluminum oxide or zirconium oxide) or with system of ceramic tubes/trapezoids to prevent carbonization of heat treated items
- Other CFC elements – CFC fans, holders, support plates, structural elements etc.
- Standard CFC plates, U and L profiles, threaded

Service for vacuum furnances

- Short delivery terms – quick replacement of damaged part
- Standard parts on stock for different types of furnaces, we refill our stock according to actual needs of our costumers
- After agreement we can keep agreed quantity of parts for our costumer on stock – payment only after dispatch
- Making drawings of all spare parts, giving our costumers production drawing for these parts free of charge, making drawings in our costumer company or in our company (after resending parts), consultations about change in design
- In cooperation we offer complete or partial reparations of vacuum furnaces and their heating chambers
- Measuring of vacuum, reparations of cooling systems, vacuum pumps, electrical installations, control systems, setting mechanical parts of furnaces.





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