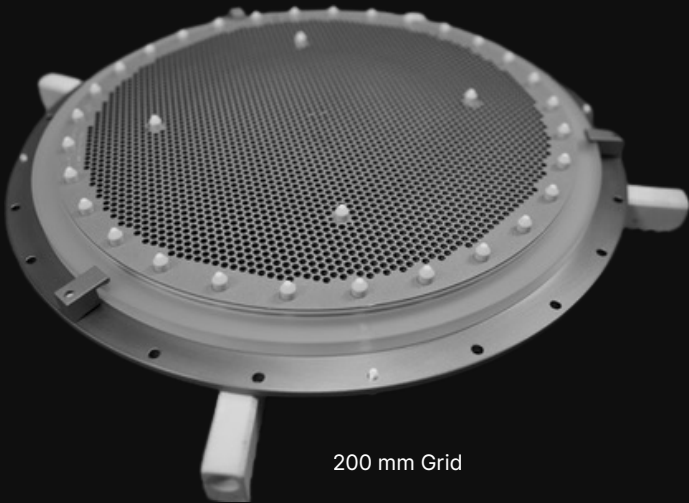


CALIFORNIA
EQUIPMENT
SERVICES

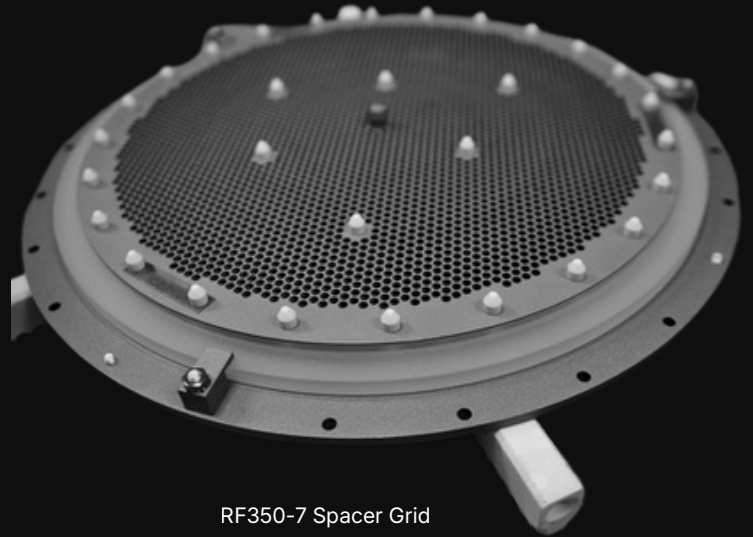
PRODUCTS & SERVICES CATALOG - 2026

408-570-0015
INFO@CALEQUIPSV.COM
3280 EDWARD AVE STE F

01 GRID ASSEMBLIES & SPACER GRIDS



200 mm Grid



RF350-7 Spacer Grid

Complete grid assemblies manufactured, assembled, and tested in-house for RF350, 200mm, 420, ASG, ACD, and Nordiko systems.

RF 350

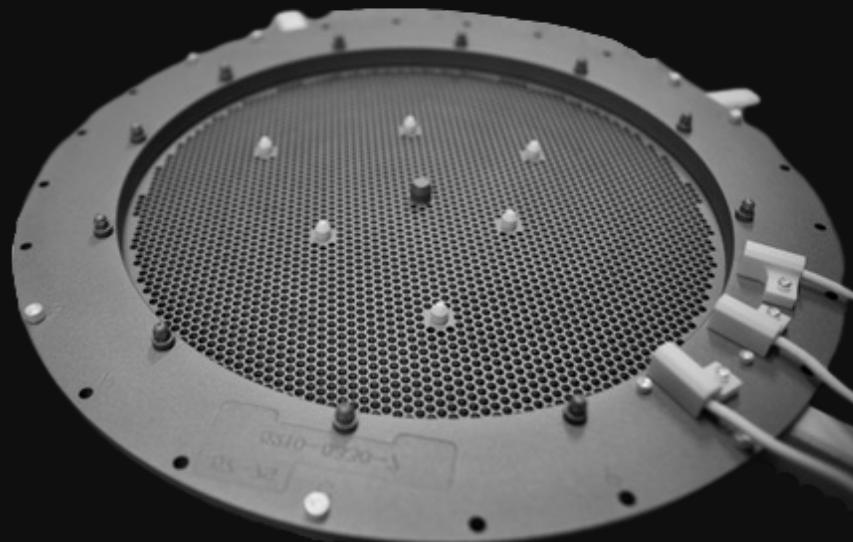
- 5-Zone Spacer Grid
- 7-Spacer Grid Assembly
- Hi-Power Grid Assembly

200MM

- 200mm Grid Assembly
- 200mm Low Power Grid Assembly
- 200mm AVP Standard Grid Assembly

OTHER SYSTEMS

- 420 Grid Assembly
- ASG Grid Assembly
- ACD Grid Assembly
- Nordiko Grid Assembly (15cm)



02 GRID PLATE SETS

Precision-machined molybdenum grid plates in standard and custom hole-pattern configurations. Grid transport cases with custom foam inserts available.

RF 350

- Standard Grid Plate Set (3 plates)
- 7-Spacer Grid Plate Set
- Hi-Power Grid Plate Set
- Individual Replacement Plates

200MM

- 200mm Grid Plate Set
- 200mm-350 Special Grid Plate Set

OTHER SYSTEMS

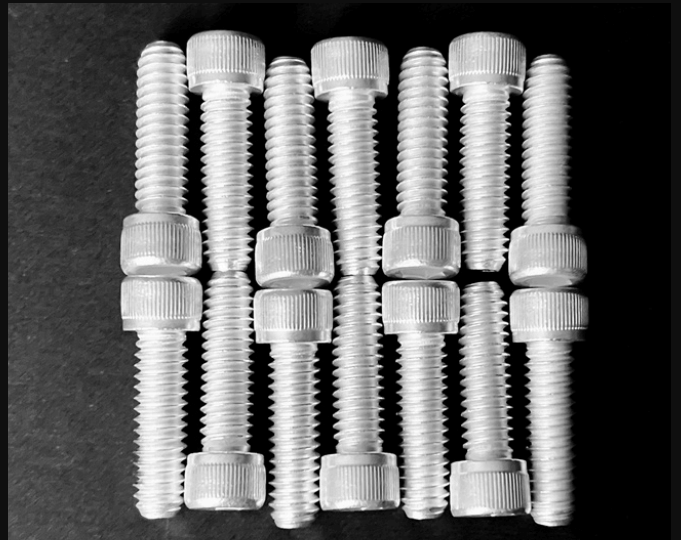
- ASG Grid Plate Set
- ACD Grid Plate Set
- 420 Grid Plate Set
- Nordiko Grid Plate Set
- Pyrolitic Graphite Grid Plate



03 HARDWARE



Socket Head Cap Screw,
Vented, Silver Plated



Socket Head Cap Screw,
Silver Plated

Cleanroom-ready fasteners, standoffs, and specialty hardware. Available in stainless steel, vented, silver-plated, bead-blasted, brass, and custom finishes — US and metric.

SCREWS

- Socket Head Cap Screws — Vented & Silver-Plated
- Hex Head Screws — Vented & Bead-Blasted
- Phillips Head — Silver-Plated, Vented
- Slotted Flat Head — Silver-Plated (SAE & Metric)
- Shoulder Screws — Vented & Standard
- Torx Button Head — Vented
- Molybdenum Hex Head Screws
- Set Screws — Nylon Tip & Vented
- Threaded Studs — Custom

NUTS & WASHERS

- Acorn Nuts — Vented, Silver-Plated & Bead-Blasted
- K-Lock Nuts
- Jam Nuts
- Molybdenum Hex Nuts
- Thumb & Fixture Nuts
- Flat Washers — SAE, Metric, Titanium & PEEK
- Lock Washers & Fender Washers
- Retaining Rings — Internal & External

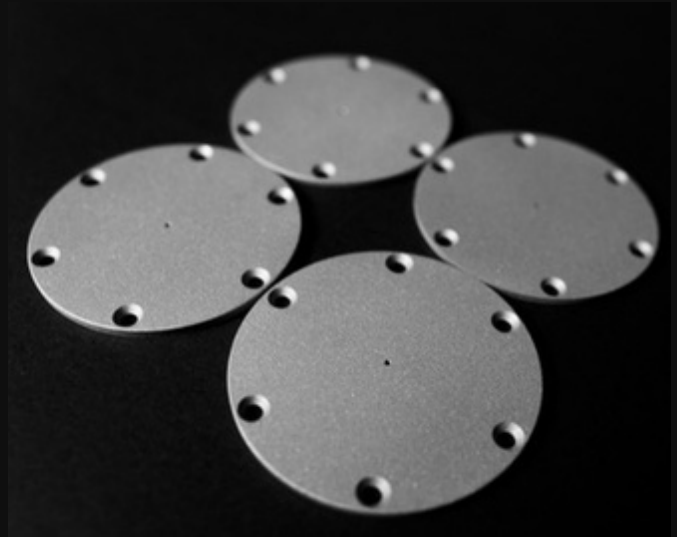
STANDOFFS & SHIELD FASTENERS

- Vented Male-to-Female Standoffs — Stainless
- Vented Male-to-Male Standoffs — Stainless
- Aluminum Standoffs — Male-to-Male & Male-to-Female
- Shield Fasteners — Standard & Long Style
- Shield Fastener Thumb Nuts
- Vented Shield Fastener

04 PBN CATHODE & FILAMENT COMPONENTS



PBN-CS003



PBN-CS001

Pyrolytic Boron Nitride cathode plates, canisters, filament posts, clamps, sputter cups, and tungsten filaments. All components ultrasonically cleaned and inspected.

CATHODE PLATES, CANISTERS & INSERTS

- PBN Cathode Plate (RF350)
- PBN Cathode
- PBN Lid Canister (Nozzle Flange)
- PBN Inner Canister
- PBN Outer Canister
- PBN Inner & Outer Cathode Ceramics
- PBN Ceramic Insulator
- PBN Kit (Inner & Outer Ceramics)
- Thin PBN Plate
- Filament PBN Insert & Housing

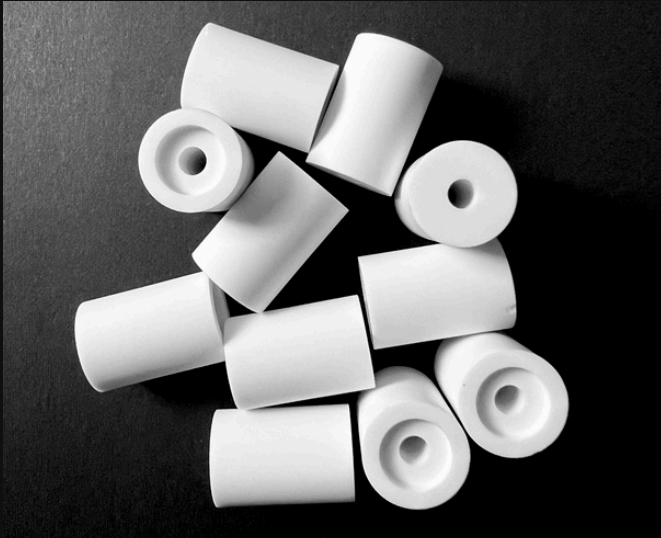
POSTS, CLAMPS & SPUTTER CUPS

- Universal Molybdenum PBN Filament Post
- Molybdenum PBN Filament (Left & Right)
- Molybdenum PBN Mounting Clamp
- Filament Post Clamp
- Silver-Plated Conductor Clamp
- PBN Clamp Conductor — Copper
- External & Internal Molybdenum Sputter Cup
- Nozzle Flange & Titanium Nozzle Flange

FILAMENTS & DLC COMPONENTS

- Hi-Power Tungsten Filament (0.040")
- Tungsten Filament — Small Radius (0.050")
- U-Style Tungsten Filament
- DLC Shield
- DLC Molybdenum Filament Clamp
- DLC Molybdenum Filament Post

05 CERAMICS



PBN CS-007



DP-001

High-purity alumina and specialty ceramic insulators in 96% and 99.5% alumina, to precise dimensions and tight tolerances. Complete ceramic component sets for a full grid assembly rebuild, available for all major system types.

GRID INSULATORS

- Suppressor Post Insulator
- Beam Power Insulator
- Ground Grid Insulator
- Suppressor Grid Insulator
- Insulator Cap
- Power Post Insulator
- Gap Insulators (A, B, C, D)
- Grid Wire Covers (Left & Right)

SPECIALTY CERAMICS

- Depo Breaker
- Fish Spine Beads
- Alumina Bushing Isolators
- Ceramic Insulator Rods & Tubes
- Ceramic Bushing (Alumina)
- Ceramic Rest
- RF Coil Support
- DC Bias Isolator

NORDIKO & CSC CERAMICS

- Nordiko Grid Spacers
- Nordiko Location Insulators
- Nordiko Screw Head Insulators
- CSC Insulators (Male & Female)
- Ceramic Insulator Tubes

CERAMIC KITS

- Ceramics Kit — RF350
- Ceramics Kit — RF350 7-Spacer
- Ceramics Kit — 200mm
- Ceramics Kit — 200mm-350 Special
- Ceramics Kit — 420
- Ceramics Kit — ASG Grid
- Ceramics Kit — ACD
- Ceramics Kit — ACD (.118 holes)

06 MOLYBDENUM PARTS & RINGS

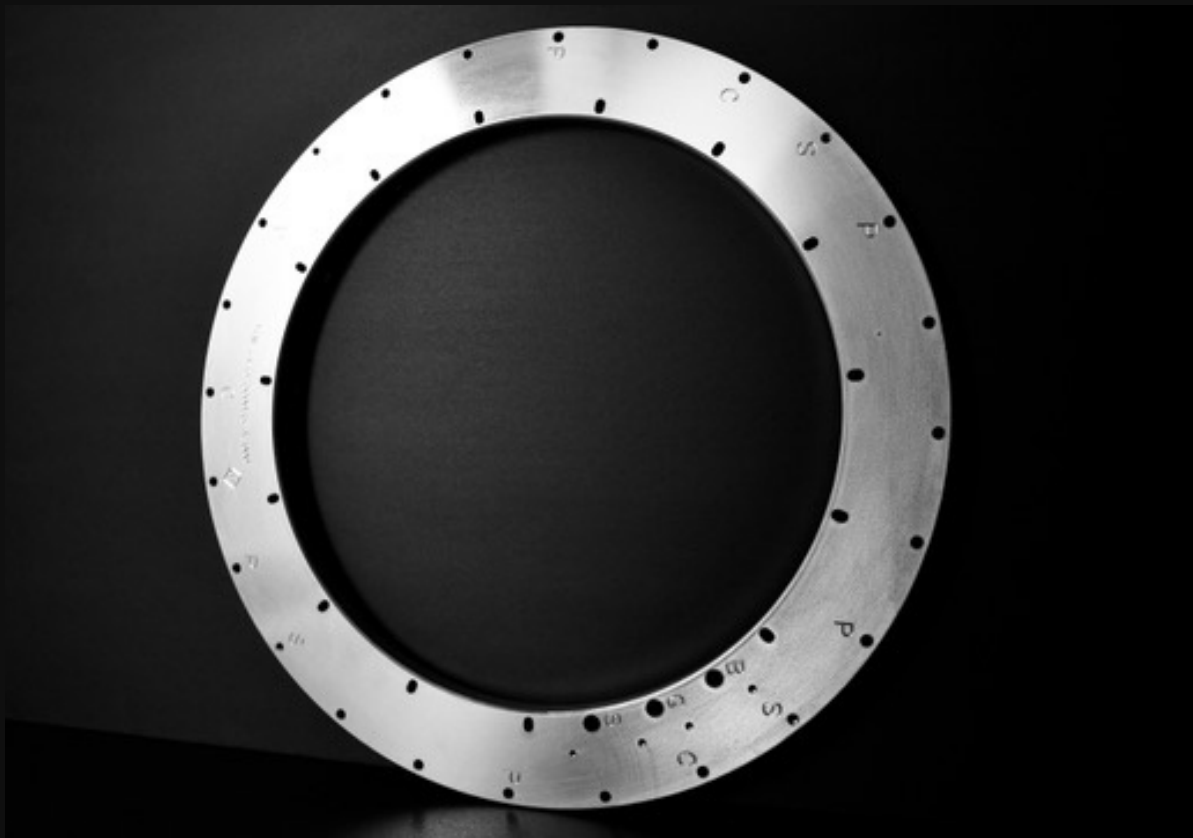
Precision molybdenum and refractory metal components including power posts, suppressor pins, sputter cups, and rings.

POWER POSTS & PINS

- Suppressor, Beam & Ground Grid Posts
- ASG Power Posts (Beam, Ground & Suppressor)
- Power Post Nuts (multiple sizes)
- ASG Suppressor Pin
- 420 Suppressor Pins
- 200mm Special Suppressor Pin

CUPS, SHIELDS & RINGS

- Sputter Cup & Center Cup
- Gap Insulator Shields (A & B)
- Chamber Shield Clamp Nut
- 200mm Molybdenum Ring
- Stainless Steel Rings (multiple diameters)
- Custom Titanium Cathode Washer
- Molybdenum Sheet Stock



200 mm Moly Ring

07 SHIELDING

Stainless steel chamber shielding, liners, shutters, and clamp rings for RF350, RF210, and Comptech 2460 systems. Quartz, pyrex, and sapphire viewports for vacuum chamber observation windows.

GRID INSULATORS

- RF350 Top Shield
- Front-End Shield Set (Upper & Lower)
- Grid Shield Set (Inner & Outer)
- RF210 Stainless Steel Backplate
- Shutter Disk
- Source Shutter (2-piece set)
- New Clamp Ring

NORDIKO & CSC CERAMICS

- Quartz Viewport Disk (6.75" diameter)
- RF350 Viewport — Standard
- RF350 Viewport — Small Hole
- Pyrex Window Lid (4" diameter)
- Sapphire Viewport — Custom

SPECIALTY CERAMICS

- Chamber Liners — Sides A, B, C, D (Top & Bottom)
- Clusterline Wafer Shield
- Large Loading-Side Chamber Shielding

CERAMIC KITS

- Comptech 2460 Shielding — Full Set of Panels
- Left-Hand & Right-Hand Configurations
- Z-Shape Left & Right Hand

08 ION GAUGE

Vacuum measurement gauges compatible with KF-40 and Kovar tubulation mounts.

ION GAUGE

- Broad-Range — Platinum Coated
- Broad-Range — KF40 Flange Mount
- Dual Tungsten Filament with RF Shielding
- Thoriated Iridium
- Iridium — Kovar Tubulation
- Extended Range — Dual Coated Iridium



ion guage

09 REBUILD KITS & SERVICES

All-inclusive rebuild kits and expert rebuild services. Kits include every pin, cup, post, washer, and fastener needed. All rebuilds include full component replacement, cleaning, and inspection.

METAL KITS

- RF350
- RF350 7-Spacer
- RF350 Hi-Power
- 420 Grid
- 200mm Grid
- 200mm-350 Special
- ACD

REBUILD KITS

- Grid Rebuild Kit (Ceramics + Metals)
- PBN Rebuild Kit — Tunable Source
- PBN Rebuild Kit — Hollow Cathode

LEVEL 2 REBUILDS

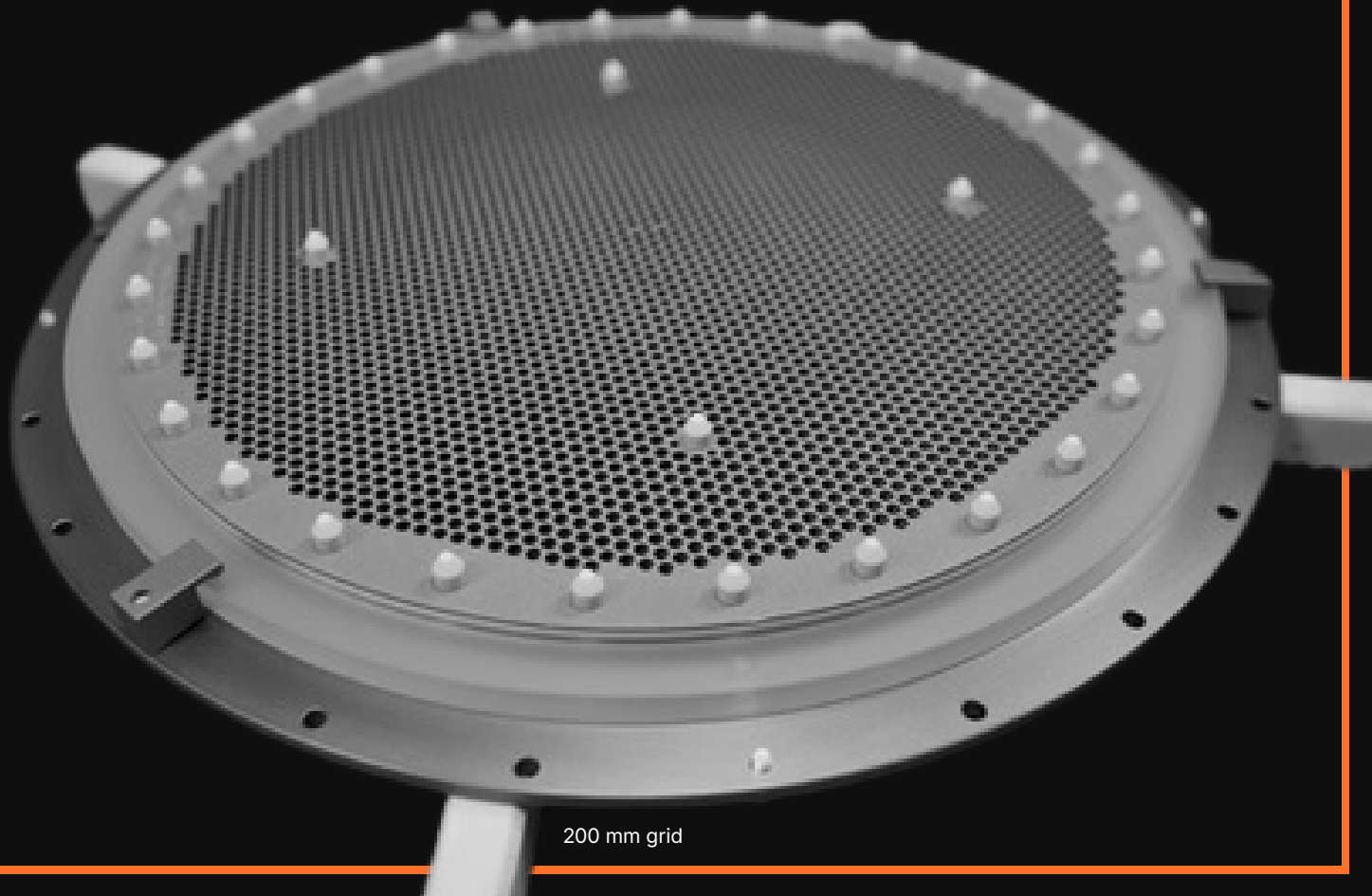
- RF350 5-Zone
- RF350 7-Spacer
- ASG 200mm
- 420

LEVEL 3 REBUILDS

- Full Grid Assembly
- 200mm Ion Mill

ADDITIONAL SERVICES

- Ultrasonic Cleaning & Re-Certification
- Custom Machining
- Engineering Consulting



200 mm grid



REQUEST A QUOTE

Contact California Equipment Services to get a quote

how to reach us:

Phone: 408-570-0015

Email: sales@calequipsv.com

Web: <https://www.calequipsv.com/>



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