

KDF - the “original” OEM

There are three major categories for parts:

- **Consumables**
- **Replacement parts**
- **Electrical assemblies**

KDF has parts available for these models:

- **822, 8620, 8667, 8671, 8800**
- **BMC-600**
- **Aries**
- **KDF 600 Series**
- **KDF 700 Series**
- **KDF 800 Series**
- **KDF 900 Series**

Consumables:

Shields, o-rings, bearings, heat lamps, magnets (for all cathode types), ion tubes, and TC's, KDF proprietary lubricant and drive chains.

Replacement Parts:

Inset Cathode™, Upsilon, Mu, Chi and Focest Cathode™. Also Planar, Mark II™, Magterial™, Q-Set cathodes*. All bellows, gearlock seals, feed throughs (ferro fluidic), pallet carriers, shutter carriers and plates. RF networks, solenoids, relays, cryo pumps, compressors, grippers, gate valves, hydraulic pumps, manifold valves and cylinders, air packages, etch hoist and etch platform assemblies, stainless steel roughing lines view ports, Pyrex collars.

* All cathodes are the sole property of KDF. KDF owns all rights and intellectual property associated with these cathodes.

Electrical Assemblies:

Printed circuit boards, RF generators, flow control valves, gas flow controllers, power supplies, (RF and DC), computer boards and I/O cards, analog racks and pressure gauges.



In line with your process

KDF carries a full line of parts for your KDF or MRC system. All our parts are manufactured from the original MRC documentation located and maintained at KDF.

With our large inventory we are able to deliver the exact and correctly engineered replacement parts for all MRC and KDF equipment typically within days of your order. We maintain working stock room with thousands of parts valued over 2 million dollars.

KDF and its engineering department are always investigating ways to update and improve older designs for better system reliability, as well as finding replacement parts for obsolete components. Do not be fooled by third party pirated parts, stay with KDF and get the correct part the first time.

KDF supplies replacement parts, retrofit kits, backing plates, target materials and bonding services for MRC and KDF sputtering and etch systems.



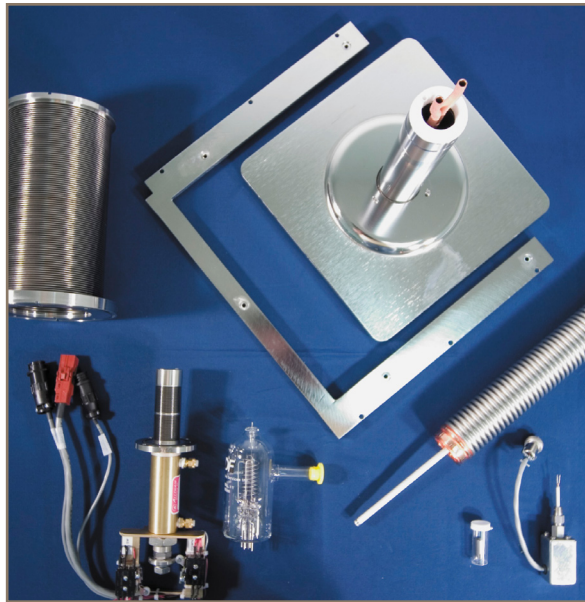
KDF In-Line Spare Parts Kits

KDF has developed recommended spare part kits. These kits enable your maintenance department to minimize downtime for preventive maintenance and enable production to suffer minimum of downtime due to not having the right part at the right time. These kits are machine generic and can be modified to reflect your individual needs, and carry with them significant discount if purchased as a kit versus individual parts.

Kits for KDF/MRC **600** and **900** as well as for KDF **700** and **800** systems include:

- Spare shield set
- Spare PC boards
- Spare O-ring kit
- Spare chambers parts
- Spare vacuum parts
- Spare heats parts
- Hardware kits
- Spare scan parts
- Comprehensive recommended spares

KDF also offers a variety of conversion kits allowing you to convert your Inset™ cathode from existing configuration (Chi, Mu, Upsilon) to any other configuration (Chi, Mu, Upsilon) that will suit your needs.



In addition to the various kits KDF also offers a wide variety (several hundred) of pallets, with materials ranging from Stainless Steel, Aluminum, Copper, and Titanium, for use in KDF/MRC systems. KDF engineering department is available to help your company with its special pallet requirements as well. These custom pallets are designed to accommodate any / all substrate sizes and shapes.

KDF also offers a “swap” generator program which will enable you to continue running while your generator is out for repair. We can ship you a replacement generator same day as requested for you to use until yours is repaired. Repairs typically take one week.

KDF maintains thousands of parts valued at over 4 million dollars in active stock. Most orders ship the same day.

* Contact KDF for details on the many parts and kits available. Specifications subject to change.

SPARE PARTS