

MCA™

Mobile Cubic Asher

Mobile Cubic Asher, MCA, is an all-inclusive, plug & play ex-situ and in-situ mobile station for EM sample and chamber cleaning.

SEM and TEM specimens inserted into the MCA are cleaned by gentle oxygen ashing of surface contamination without introducing artefacts onto specimen topography. After cleaning, samples can be stored under vacuum until the next step in user's process.

Mobile capabilities provide an ideal platform for contamination control in laboratories with one or more electron microscopes. The P5 Qwk-Switch™ source with bayonet fitting can easily shift to multiple EM chambers to minimize hydrocarbon contamination.



Qwk-Switch Source



Chamber



Up to 3 TEM Holder Ports



Touch Screen



3-Way Toggle Switch



Dry Scroll Pump
Gas Cylinder (Optional)

For specific application, user may request drop ship of needed gas mixture



Controller



Mobile Cubic Asher (MCA)



1/8" N ₂ vent
Up to 99 Watts at 13.56 MHz
Down to 70 mTorr
Shutoff leakage - 1E-8 Torr l/s, 1.3E-9 Pa-m ³ /s
Opto-isolated COM port for Windows OS
Up to 3 TEM Holders
3-Position toggle (Pump-Off-Vent)
7" Touchscreen Control Panel
Qwk-Switch™ Source mounting to transfer to SEM
100-230 VAC, 50/60 Hz, Power consumption 500VA at 50 Ohms
36 x 102 x 51 cm / 40" x 20" x 14" (HxWxD)
6.5" x 6.5" Al chamber w/ Viewport
Weight 120lbs / 55 kg

GV10x Remote Control software v1.7

Recipes for multi-users – 10 roll around recipes stored
 Pressure Trigger – enables plasma ignition at selectable pressure
 Set and monitor – cleaning Power & Duration

PN#	Mobile Cubic Asher
MCA	Mobile Cubic Asher: <ul style="list-style-type: none"> • Chamber • GV10x Qwk-Switch™ DS ¹Source • Controller • ibss Software • 60 l/m Scroll Pump w/ Shutoff Valve & MicroPirani
TEM Holder Sleeves	
TEM J	JEOL TEM Holder Sleeve & Plug
TEM F	FEI TEM Holder Sleeve & Plug
TEM H	Hitachi TEM Holder Sleeve & Plug
Optional SEM Cleaning Items	
QS4T	Qwk-Switch Adapter & Plug – One per SEM
SP	² Spooler for SEM chamber cleaning – One per SEM to be cleaned
GCR	500 psi Gas Cylinder & Regulator 14.25" x 3.53" Plasma Driving gas

¹GV10x DS Asher comprised of a patented Plasma Source and Controller

² Identify SEM[s] port dimension to select correct spooler

Contact ibss Group for hydrogen cleaning

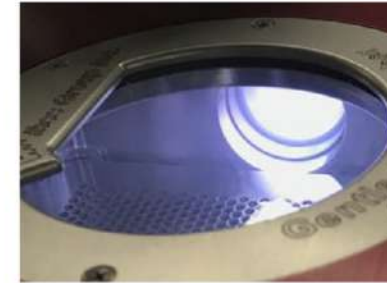
Prices: FOB Burlingame, CA
 Terms: Net 30 Days
 Delivery: 6 weeks ARO
 Warranty: Three Year Limited



Chiaro



Touchscreen Control Panel



UV Protected Viewport

GV10x w/ Qwk-Switch™ fitting for quick shift to SEM ¹
7"x7" chamber w/ 3 TEM holder ports & swing away viewport
Up to 99 Watts at 13.56 MHz RF
80 l/s turbo pump (1E ⁻⁶ Torr base pressure)
Shutoff leakage - 1E ⁻⁸ Torr l/s, 1.3E-9 Pa-m ³ /s
Opto-isolated for SEM protection
7" Touchscreen Panel – Set Power(w), Cleaning Duration, Pressure Trigger
Sequenced ON/Off/Vent toggle
1/8" N ₂ vent
100-230 VAC, 50/60 Hz, Power consumption 500VA at 50 Ω
H x W x D: 36 x 102 x 51 cm / 40" x 20" x 14"
Weight: 120 lbs./55 kg

Remote Control software for PC

- Set Power(W) & Time
- Set min/max power limit
- Pressure Trigger
- Recipes
- Logging
- Online Support

PN#	Description
CHV	CHIARO™
Optional Accessories	
TEM J	JEOL TEM Holder Sleeve & Plug
TEM F	FEI TEM Holder Sleeve & Plug
TEM H	Hitachi TEM Holder Sleeve & Plug
OM	Stereo Microscope 104 mm WD, 0.7x mag w/ LED illumination
GCR	58L Cylinder & Regulator (Gasco UN1954) Recomendad Gas Mixtures: N ₂ /H ₂ , O ₂ /Ar or He/H ₂

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Prices: FOB Burlingame, CA
 Terms: Net 30 Days
 Delivery: 8 weeks ARO
 Warranty: Two Year Limited

