

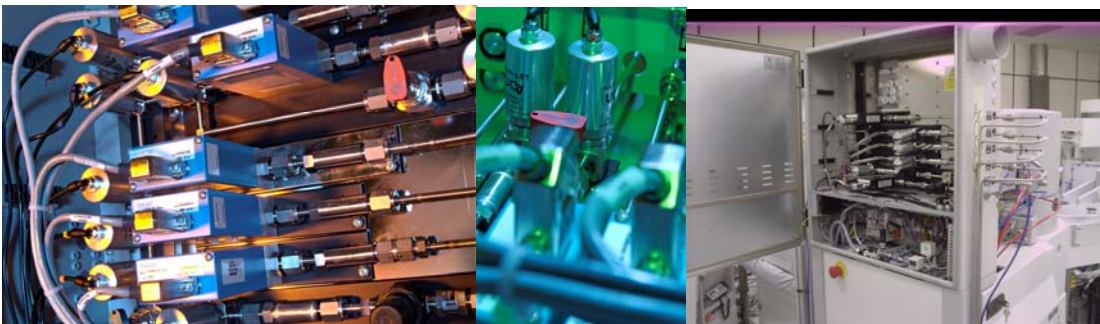
Client: Surface Technology Systems
Industry: Semiconductor
Scope: Design; procurement; mechanical assembly;
electrical integration and test of
“plug and play” gas control systems

Key Notes:
Cambridge Fluid Systems provides
continued product engineering support
and value adding services to this global
client

STS designs and manufactures a range of highly specialised machines incorporating innovative technology used in the production of semiconductors and semiconductor related devices.

STS serves a range of applications outside this ‘mainstream’ memory chip market in several emerging sectors within the telecommunications, information technology and new Micro ElectroMechanical Systems (MEMS) industries.

CFS are the preferred out sourcing partner for the Gas Control Systems. The gas Control Systems are manufactured in our class 100 cleanroom. All Gas sticks & manifolds are fabricated in accordance with the gas schematic and GA drawing. The components include metalwork; weld fittings; valves; mass flow meters & controllers; PCB’s and various other electrical items. The system is Helium leak checked using the ‘inboard’ method (vacuum pulled in pipe work and Helium sprayed externally around joints). The leak integrity is a minimum of 1×10^{-9} mbar.l/sec.



CFS has worked closely with the Institute for Manufacturing at Cambridge University to improve the procurement and manufacturing operations associated with this client. Following the implementation of several lean manufacturing techniques, including Kan-Ban; Kaizen and 5 S, we have seen reductions in both cost and lead-time which ultimately benefit our client and the end users.

Notes:

STS offers a range of key technologies used in semiconductor device manufacturing, including:-

Etch Processes: Advanced Silicon Etch(ASE[®]), Inductively Coupled Plasma(ICP) Etch, Reactive Ion Etch (RIE), Chemical Vapour Etch (XeF₂)

Deposition: Plasma Enhanced Chemical Vapour Deposition (PECVD)

<http://www.stsystems.com>



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