

Critical Subsystems

For Semiconductor, Flat Panel Display & Data Storage Manufacturing Equipment



The market for Critical Subsystems for use in the semiconductor and related manufacturing industries has emerged to become an important industry in its own right.

Critical Subsystems are high technology and high value products that actively affect the processing or handling of substrates. Suppliers of critical subsystems have been instrumental in providing many of the enabling technologies that have allowed equipment manufacturers and device makers to advance to successive generations of processing equipment. The Critical Subsystem suppliers play significant role in equipment that is used to manufacture ICs, Displays, Hard Drives, and MEMS.. The service covers subsystems for these markets.

The Critical Subsystems Service is offered as an annual subscription with regular updates throughout the 12 month period. It provides subscribers with an on-line source of information to assist with marketing, communication, and strategic planning processes. The companies benefiting from this service occupy all parts of the supply chain from the financial community and device manufacturers to equipment, subsystems, components and materials suppliers.

The service is available in two versions: the Market Leader and Driving Forces.

Service Overview

Critical Subsystems Subscription Services					
Service Type	Contents				
	On-Line Access	Databases	CSubs Perspective	Appraisals	Support
Market Leader	10 User Passwords	Market Leader Database Driving Forces Database 300mm Fab Database Display Fab Database	Monthly Graphics File and CSubs Perspective Email	Appraisals included in the driving forces database plus appraisals relating to critical subsystems	5 Hours Decision Making Inquiries Marcom Support Site Visit
Driving Forces	5 User Passwords	Driving Forces Database 300mm Fab Database Display Fab Database	Monthly Graphics File and Quarterly Summary of CSubs Perspective Emails	Appraisals relating to driving forces	2 Hours Decision Making Inquiries

Critical Subsystems Features

DATABASES

Market Leader Database

The Market Leader database contains forecast and market share data for over 35 major critical subsystems segments. Forecast data covers 5 years history and 5 years forecast and quarterly forecast data is provided for the current year and subsequent year.

Driving Forces Database

The Driving Forces database contains all the information required to identify the size of potential critical subsystem markets in semiconductor, display, data storage and PV solar manufacturing. This includes revenues by system type, unit demand by system type, unit demand by process chamber, unit demand by wafer handling module and installed base of tools by tool type. It also covers forecast summaries for electronics, semiconductors, flat panel displays, hard disks and PV solar panels.

- **300mm Fab Database**

Lists over 100 active and planned fabs and includes information on location, capacity, capital expenditure, status, product type, and technology node.

- **Display Fab Database**

Lists over 150 active and planned fabs and includes information on fab location, capacity, capital expenditure, status, and glass size. The regional distribution of manufacturing capacity and the top 10 manufacturers by capacity are also identified.

Critical Subsystems Markets

- Mass flow Controllers
- Integrated Process Diagnostics
- Residual Gas Analyzers
- FTIR Gas Analysis
- Liquid Analysis
- Particle Measurement Subsystems
- Integrated Wafer Metrology
- DUV Photolithography Sources
- Lens Subsystems
- DC Process Power
- RF Power Supplies
- RF Power Matching Networks
- Microwave Power Subsystems
- Power Instrumentation
- Fluorine Gas Generators
- Chillers
- Heat Exchangers
- Temperature Measurement
- Dry Pump
- Turbomolecular Pump
- Cryopump
- Pressure Gauges – Capacitance
- Pressure Gauges – Electronic
- Vacuum Robots
- Atmospheric Robots
- Wet Robotic Subsystems
- Linear Motion Subsystems
- Ozone Generating Subsystems
- Helium Backside Cooling Subs.
- Vapor Delivery Subsystems
- Gas Panels
- Point of use Abatement Subs.
- Ceramics
- Elastomer Seals

CSUBS PERSPECTIVE

Critical Subsystems Graphics File

This is an excel spreadsheet containing the latest forecasts and industry indicators. This file is updated monthly.

Critical Subsystems Perspective

This emailed newsletter addresses the increasing need for instantaneous analysis of events and is written on an on-going basis and is sent out as the need arises. The purpose is to focus on the strategic angle and is meant for senior executives. It is brief and to the point and concentrates on the issues we have been hearing about.

APPRAISALS

Appraisals are short advisories covering industry, market, and technical trends. Topics are chosen according to their relevance to current market issues. Up to three years of appraisals are maintained in the On-line Databank.

SUPPORT

Client support provided with all modules includes access to VLSI's library and customer service assistance. This includes assistance with how to use the modules and how to access the data. Additional support includes:

- **Decision Making Inquiries**

Subscribers may request assistance with decisions or further explanation of the market data. The level of effort includes database and library searches that can typically be accessed within 15 minutes. Up to 5 hours of inquiries are included with the Market Leader subscription and up to 2 hours are included with the Driving Forces subscription. Requests are typically handled within 24 hours excluding non-business days. Additional support may be purchased.

- **Marketing Communications**

Market Leader subscribers may call, fax or email VLSI Research for marcom assistance. VLSI Research can work with your marcom personnel on topics ranging from simple fact checking to complex corporate positioning issues.

- **Site Visit**

A visit to your company allows VLSI Research or one of its affiliates to view your operations and new products. It also allows executives at your company to discuss issues and trends in the industry in a private and interactive format. VLSI Research will endeavor to visit each Market Leader client once a year. Additional visits can be arranged for an additional fee.

- **Proprietary Support**

VLSI Research can undertake additional research to meet the specific proprietary needs of clients. The cost of such work will be quoted on request.

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