

Maintenance and Materials Supply Services

After establishing a Fab, we are able to provide customers with maintenance and materials supply services. This will help our customers to ensure that their operations run smoothly and that any operational issues are addressed on time. With our active involvements are in the used and refurbished market. Beside providing ready access to available parts and accessories, we also have a wide range of production raw materials such as special gases and chemicals, wafers, and wafer carriers.

SEMICONDUCTOR BUSINESS UNIT

Project Consulting services	6"-12" FAB
Photomask	Consulting/Turn-key Services for 0.35um to 0.065um Mask House Data Process and Fracturing Patterning/Process/Metrology Inspection/Repair/Pellicle Mounting Operation/Yield Improvement Binary Mask/KrF PSM/ArF PSM Technology
IC Design & Product IP Sourcing Services	Design and Manufacturing service Semiconductor Foundry Service Turnkey Service
Facility Engineering	Clean Room Waste Water Treatment Ultra Pure Water Special/Bulk Gas Chemical Dispense System Hook Up Engineering Facility Monitoring Control System
New/Used Equipments	Refurbishment Relocation Installation/Operation/Maintenance
FAB IP Process Development & Technology Transfer	Consultant for Semiconductor In-Line Module Process Total Solution for Semiconductor Process Technology Transfer New Catechnology Development and Product Pilot Service
Supply Chain Engineering	Material supply Consumable/Spare Parts Supply Operation Automatically (MES) Fab Production Procedure Setup
Training	Training and Qualifying Operators and Engineers Training Procedure Setup

TRONIC

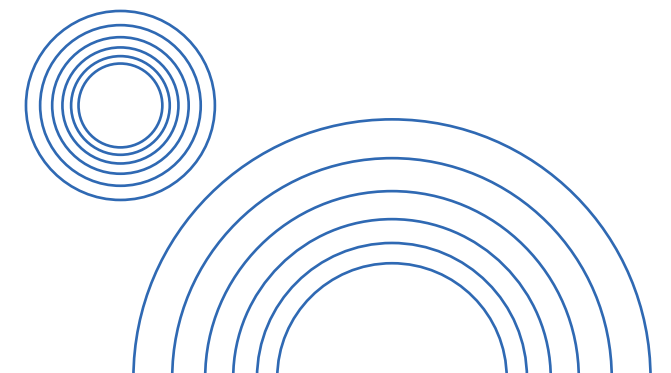


Semiconductor Solutions Business Unit
Value Solutions For Your Semiconductor Needs

Tronic International is a Technology Solutions Provider for semiconductor solutions and IT solutions, with proven technology expertise, supply chain management capabilities and a wide network of technology partners and suppliers. Headquartered in Singapore, Tronic International has offices in Russia, Taiwan, Malaysia and Vietnam to better serve the needs of its international clientele.

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Our Expertise, **Your Solution**



END-TO-END SERVICE VALUE CHAIN

Business Process for Fab Establishment

The following are the three broad project stages involved in establishing a Fab:

STAGE 1: UNDERSTANDING CUSTOMER REQUIREMENTS AND TECHNICAL SPECIFICATIONS

Our initial discussions with the customer will involve a business requirements mapping of our customer's technical guidelines, budget, desired systems and delivery schedule. At this stage a preliminary technical team comprising technical staff from Tronic International and our key suppliers will be deployed to make a site visit to the customer to further explore detailed technical issues.

STAGE 2: FORMAL PROPOSAL AND CONTRACT SIGNING

A formal proposal is prepared for the customer after assessing the technology requirements gathered, which include technical feasibility reports from the technical team. This formal proposal will contain basic technical drawings, an equipment list, the contract value, the payment terms and a delivery schedule subject to customer's approval. A formal contract will be signed between Tronic and our customer when the project terms based on our formal proposal are finalised and agreed.

STAGE 2: PROJECT EXECUTION AND HANDOVER

A dedicated project director and technical team involving facility engineering, equipment engineering, management documentation control, site management and logistics will be formed to set the project into motion. The project team will be responsible for the selection and appointment of third party suppliers, detailed designs, regulatory approvals, delivery of equipment, system tests, installation, hook-up, integration and final testing. After a satisfactory test run of the entire operation, we will formally hand the Fab over to the customer.

KEY FACTS ABOUT TRONIC SEMICONDUCTOR SOLUTIONS

- We secured our first Fab establishment project in 2005 to supply equipment, facilities and technology transfer for a 6" Fab in Russia
- We provide adequate after-sales in the CIS market
- In the pipeline are business expansions in the aerospace, high precision and pharmaceutical industries

Tronic International provides one-stop turnkey semiconductor solutions by offering a range of services that addresses each customer's individual needs. With our technology expertise and supply chain management capabilities, we provide a comprehensive range of solutions to our semiconductor customers. These include engineering, procurement, installation and commissioning of equipment and systems required in semiconductor manufacturing, and product and process IP development to establish a Fab.

In addition, our strong network of supply chain contacts and core suppliers allow us to meet a variety of our customers' technological and business needs, including foundry service and specific technology transfer.

SEMICONDUCTOR BUSINESS UNIT

Our key semiconductor services include:

Facility Engineering and Construction Management

We supply customers with the systems that meet their manufacturing requirements at competitive prices, while ensuring the smooth operation of their production. Our facilities engineering solutions include designing and building of various classes of clean room facility (Class 0.5 - 10000), power system, ultra pure water system, waste water treatment system, bulk gas and special gases supply system, chemical dispense system and a facility monitoring control system etc.

As part of our value-added service, we can integrate various systems and/or integrate new systems into our customers' existing production facilities. We are also currently exploring into expanding this services to other industries like the aerospace, precision engineering and pharmaceutical industries.

Procurement of New, Used and Refurbished Semiconductor Equipment

With our strong technical expertise and experience, we are able to work with customers to integrate new, used or refurbished equipment or a combination of these equipment to meet their needs at competitive costs. After determining the equipment requirements, we will leverage on our extensive industry network with major semiconductor manufacturing centres and semiconductor equipment suppliers globally to source for the relevant equipment to integrate in our semiconductor solution.

Fab Establishment

We provide a one-stop solution package for customers establishing a Fab combining new, used and refurbished semiconductor equipment. Our experiences and knowledges enable us to help our customers establishment or relocation of Fab based on a competitive budget, and to reduce cost over-runs.

We source and/or redesign the IC product customers want and develop the manufacturing processes based on the customer's Fab equipment and their desired process technology. The process is also customized to the technology used and the specification of the final product required and we work with our business and technology partners to develop processes that shorten product development cycles.

Our services provided include Fab site suitability survey, sourcing of new equipment, sourcing and refurbishment of used equipment, installation, integration commissioning, IT/CIM system setup, pilot run execution, process and product qualification, QA system establishment, product yield enhancement, design service capability and logistics support. We also identify and organise the requisite training for our customer's engineering and technical staff for daily Fab operations as well as preventive measures and equipment optimisation.