Solar Panel Wafer Manufacturing Process Equipment In Stock

A complete working cell of equipment used in the manufacture of the BP Solar Saturn Cell for solar concentrator systems by Solar Capture Technologies, UK.

This successful R&D process is now being industrialized and this unique collection of machinery is surplus to requirements.

This unique equipment includes exceptionally high-quality items such as heat treatment, plating laser treatments, clean rooms, and more. **This equipment also lends itself to microelectronic, semiconductor, PCB, Thick Film, and many other manufacturing processes.**

Centrotherm Centronic Diffusion Tube Furnace
Thermal processing unit with a cylindrical heating chamber that can be oriented either horizontally or vertically. This enables circular workpieces to be processed with outstanding thermal uniformity due to the equidistant surfaces radiating heat. They can also function under partial vacuum conditions to ensure tight atmospheric control throughout operation. This is critical in ensuring optimal conditions for the vapor-phase to diffuse into the solid state semiconductor without introducing undesirable impurities.

ATS Test System Solar Cell Tester
Equipment used to analyze the characteristics of a finished cell, like the efficiency of light conversion to give volts and amperage and perhaps at different wavelengths. After cells are manufactured, they are sorted and priced according to their power output.

Equipment Support Company Large Target Conformal Coatings Sputterer
* Sputtering is the ideal method to deposit stoichiometric conformal coatings. Widely used in the semiconductor and electronics industry.
Used for many kind of semiconductors for research centers.
Different metals either conductive or non conductive.

Innolas Photovoltaic High Powered Speed Laser Edge Isolation
For Processing of Monocrystalline and Polycrystalline Silicon Solar Cells Tool for Use in Photovoltaic Laser Applications
Examples for Processing Techniques:

- Laser Edge Isolation
- Laser Fired Contacts Micro via Hole Drilling
- SiN-Ablation/SiO2-Ablation
- Downsizing
- Surface Modification
- Laser Scribing
- Surface Restructuring

- 208V, 3 Ph, 50/60 Hz, CE

Lee Laser 700 Series Single Laser
The Series 700 Laser incorporate design technology in an easy to maintain and operate laser product specifically designed for scientific, R & D and medical OEM applications.

Lee Laser Innovative Laser Solutions Dual Laser with Robot Wafer loader
It incorporates significant optical head design improvements combined with a power supply that is engineered to meet future uniform international electrical codes. The power supply also uses a new concept of arc lamp power control.

CPS Multi Function Wet Etching & immersion treatment Bench
consists of a 3 station wet cleaning and etching process, used in semiconductor manufacturing or other high technology products.

Lamarflo Electroless Plating and multiple option wet Bench
Electroless plating, also known as chemical plating or autocatalytic plating, is a class of industrial chemical processes that create meal coatings on various materials by a single chemical reaction of metal cations in a liquid bath.
After cells are edged, nickel is plated and then copper, and then silver immersion. This is for laboratory.

CPS Electroless Plating Bench for numerous wet treatments
Consists of a 6 station wet cleaning and electroless plating process, with 3 pre-treatment stations and 3 electroless plating stations respectively. This process is commonly used in semiconductor manufacturing or other high technology products.

Oxford Applied Research Solar Vacuum Laminator
Laminate cells for protection

Semi Lab WT-2000 Bench Lifetime Measurement System
The WT product line is a powerful measurement platform for performing many different semiconductor material characterization measurements.

Ruwac Industriesauger NA35 DustEx /GasEx Wet Separator
Wet separators are used to separate dust and dust particles of all kinds. They are passed into liquid media and are safely bound there. Our wet separators are available in different designs that differ in size. They are particularly suitable for suction materials such as propellant powder, explosives, titanium, aluminium dust or magnesium dust. The dusts are introduced into liquid media and are therefore no longer easily flammable. And even cooling hot gases is possible.