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“The leader of CDS and WET equipment in semiconductor and FPD industry”

STi

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STi

Our Goal is Surpassing The Best

The Leader of CDS and Wet Equipment in the Semiconductor and FPD Industry

Contents

03 Company history

04 Business area / Company Vision

05 Certifications

MANUFACTURING LINE

APPLICATIONS

Company history

2011
05 INNO-BIZ certified

2010
05 OSHAS 18001 certified

2009
11 $10 Million export tower award

2007
12 Opened the Dalian office to support a newly built 300mm FAB

2006
07 CCSS awarded "Korea World-class Product Award" by the Korean government
05 ISO 14001 certified
06 Selected as advanced technology center (ATC) by the Korean government

2005
11 Awarded "Best supplier in 2005" by Samsung Electronics (T7)
12 Acquired PLC-Tech Co. Ltd. for control programming business
07 Established STI service Co. for total chemical management services

2003
03 Established the Shanghai operation (SD tech)
04 Opened the Chun-an (Tangjeong) city branch

2002
02 Registered with KOSDAQ increased of capital to 3.3 billion wons
06 Opened the Taiwan branch

2000
04 Opened the Gumi branch
12 ISO 9001 certified

1999
06 Opened a site office in Giheung

1997
07 Company founded in Seoul

STI Co., LTD.

BUSINESS AREA

Chemical Delivery System
- Semiconductor
- FPD
- Solar cell

Inkjet Printing System
- FPD
- Semiconductor
- Solar, RFID, PCB···

Wet equipments (incl. Glass Slimming System)
- FPD
- Solar cell

Bar LCD
- Digital signage
- Entertainment

COMPANY VISION

VISION
To be a leading company serving total solution of chemical supplying system and having discriminatory technology on wet cleaning system

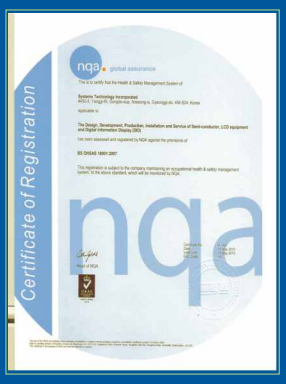
FUTURE
The world of unlimited possibility in the semiconductor & FPD

MISSION
To be a permanent and core partner of semiconductor and TFT-LCD devices manufacturer

CERTIFICATIONS

STI established quality assurance system to satisfy customer's various demands and to make the quality better.

ISO 9001
Certifying body :
Q.A International Certification Ltd.



OHSAS 18001

ISO 14001
Obtained ISO 14001 certificate of environment management system

Scope of certification : environmental management system for design, development, production, installation and additional service of LCD and semiconductor equipments/devices (cleaning equipment, chemical supply equipment)

CE CASSETTE CLEANER

CE ORIFICE CLEANER

TUV

Chemical Delivery System ► ►

CDS

CDS, world-class product awarded, stands for "Chemical Delivery System" which provides high purity chemical in compliance with specific requirements of the semiconductor, FPD and solar industries.

PRODUCT GUIDE

CHEMICAL SUPPLY SYSTEM

Applications : Bulk chemical supply for semiconductor and FPD
Acid, alkali and solvent delivery system

SLURRY SUPPLY SYSTEM

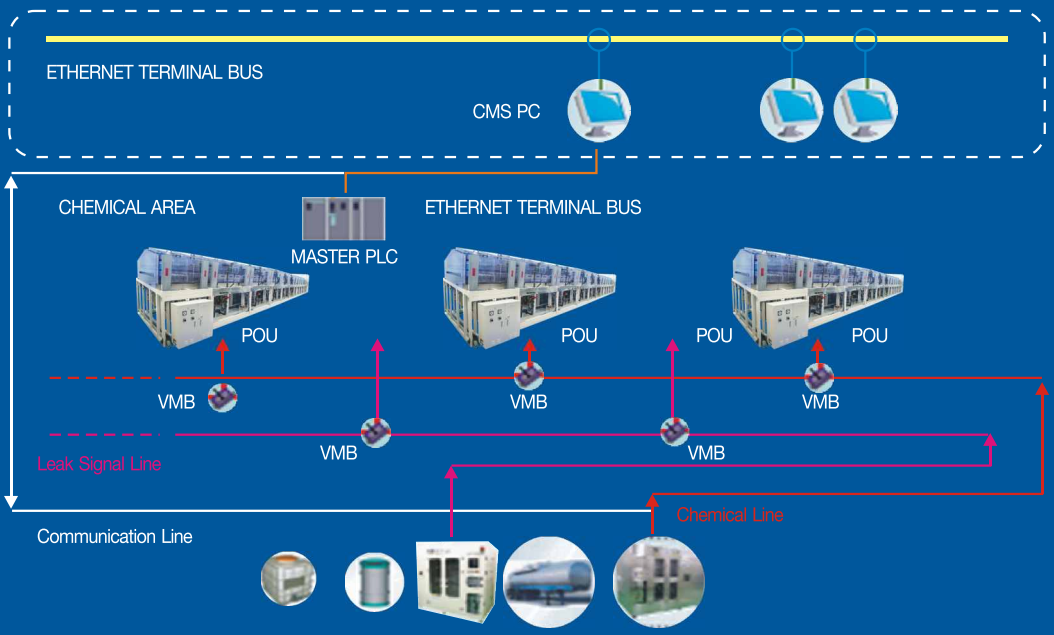
Applications : LSC, Oxide, Tungsten, Copper, Poly, Ceria
Diluting with water and mixing with
other chemicals

MIXING & DILUTION SYSTEM

Applications : TMAH, BHF, SC-1, KOH, DSP+, FPM
mixing and dilution for semiconductor
and TFT-LCD
mixing with other chemicals

* When you export, government approval is required because the products above are controlled by strategic material. And when you re-transaction in domestic, you should memtion that the items are strategic material.

TOTAL SOLUTION FOR CHEMICAL SYSTEM



Central chemical supply system (CCSS)
Drum and tank lorry charge module
Chemical monitoring system (CMS)
Total chemical management (TCM)

MAIN CUSTOMERS

Sort	Customers
Domestic	Samsung, LG, Skhynix, NEXOLON, STX Solar, AMKOR, KCC Dongbu HiTek, HKS, OCI, HHI(Hyundai), Hanwha
Overseas	Skhynix(WUXI), BOE, Tianma, IVO, AUO, CPT, M+W Zhonghuan semiconductor

DEVELOPER

APPLICATIONS

– Accommodate up to G11 substrates

FEATURES

– Loading/developing/cleaning/air knife drying/unloading
– Developing time : 60 ~ 100 seconds
– Tact time : 20 ~ 60 Seconds
– Easy operation & maintenance
– Concentration control system
– CIM (Host online system)

SPECIFICATIONS

Item	TFT	C/F
Developing	Slit nozzle	Wide angle spray nozzle
Cleaning	Shower nozzle	High press slit nozzle(AQJ)
Air knife drying	Uniform drying	Uniform drying

CLEANER

APPLICATIONS

- ITC(Integrated total cleaner), initial, pre-photo, pre-depo
- Applicable to TFT-LCD, OLED, PDP
- Accommodate up to G11 substrates

FEATURES

- Loading/UV(AP)/rinsing(chemical)/cleaning/air knife drying/IR/unloading
- Tact time : 20 ~ 60 Seconds
- Easy operation & maintenance
- CIM(Host online system)

SPECIFICATIONS

Item	Specifications
Cleaning	Excimer UV, AP plasma, chemical, O_3, megasonic AQJ, TJ, BJ, HP, aqua knife, air curtain roll brush, disk brush, belt brush(auto gap setting)
Air knife drying	Uniform drying

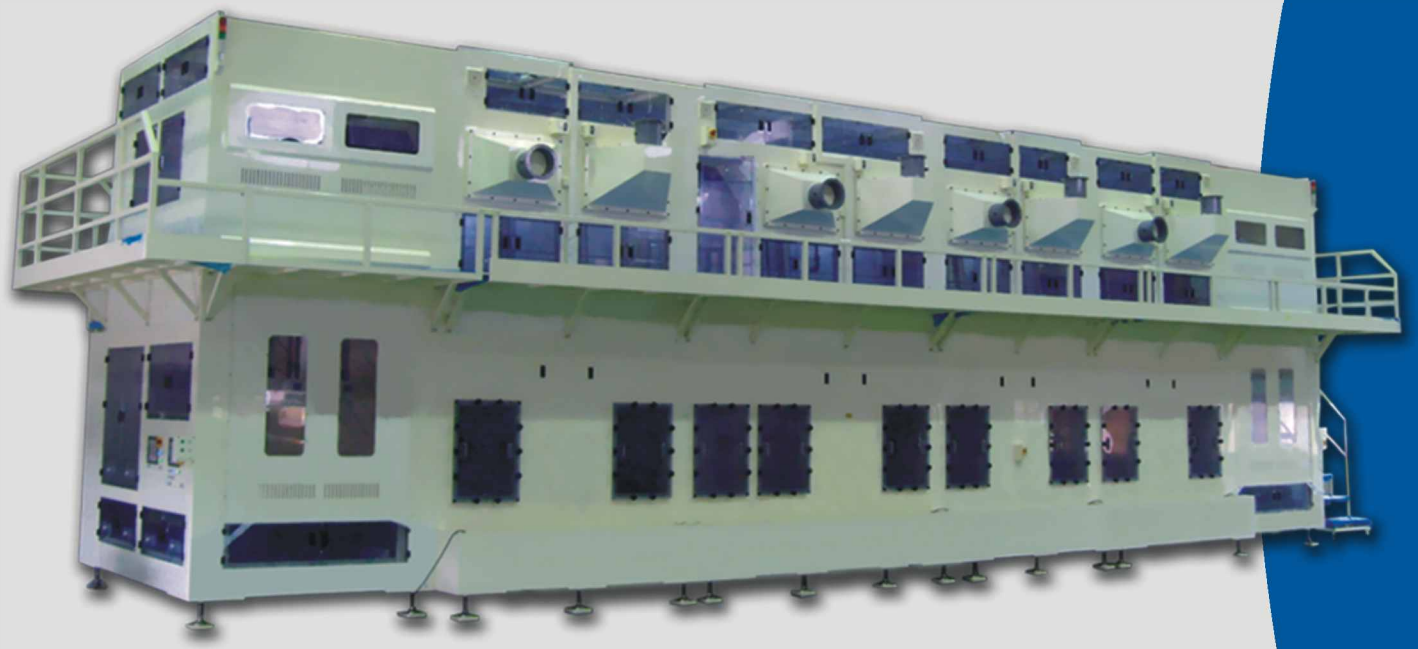
GLASS SLIMMING SYSTEMS

APPLICATIONS

– Accommodate up to G5 substrates

FEATURES

– Loading/slimming/rinsing/drying/unloading
– Slimming capability : 1.4T —〉 0.4T
– Slimming uniformity : 〈 ± 3%
– Process time : 30~80 minutes
– bath(full automatic system)
– HF dilution & control system
– Chemical supply system
– HF recycle system
– Easy operation & maintenance
– Safety design
– CIM (Host online system)



SPECIFICATIONS

Item	Specifications
Slimming	HF chemical slimming, flow control, bubbling plate
Rinsing	Overflow with DIW, quick drain, cassette up/down shower, bubbling plate
Drying	Hot CDA, special nozzle, exhaust system
Transfering	AC servo robot, turntable, tilt
Mixing	Mixing tank, buffer tank, chiller, HF concentration meter

CASSETTE CLEANER

APPLICATIONS

– Accommodate up to G8 substrates

FEATURES

– Applicable to TFT LCD, OLED
– Loading/DIW cleaning/CDA drying/hot blowing/unloading
– Tact time : 15 ~ 30 minutes
– One chamber (cleaning + drying + hot blowing)
– Two chambers (cleaning + drying / drying + hot blowing)
– Easy operation & maintenance
– CIM(Host online system)

SPECIFICATIONS

Item	Specifications
Cleaning & Drying chamber	Cassette rotation, hot DIW, high pressure CDA
Drying chamber	Cassette rotation, high pressure CDA, hot blower
Transferring	Automatic moving system Stocker & AGV (option)

INKJET PRINTING SYSTEMS

The total provider and system integrator with unsurpassed performance and quality for deposition and printing in flat panel display and digital decorations
– Mechanical design, electronics, software, process, and simulation

PRODUCT GUIDE

G8 PI COATER

Applications : LCD alignment layer deposition
Substrate size : G8 substrate (2200 x 2500 mm^2)
90 printheads
Mura simulation and compensation
Adaptive unevenness adjusting

E-PAPER, EWD, and LASER INKJETS

Applications : Material deposition
Substrate size : G2 substrate (370 x 470 mm^2)
Up to 6 printheads
Single/multi-pass printing
Anti-flapping device

PHOTOVOLTAIC INKJETS

Applications : Bus bars and finger bars for solar cells
Substrate size : 6" wafer or square wafer 165X165mm^2
Single/multi-pass printing
Hybrid bridge type

Other Applications: L/C and C/F INKJETS

PRODUCT GUIDE

DIGITAL PRINTERS

Applications : Ceramic tiles, textiles, and rulers
Flat bed or roll to roll printing
Single/multi-pass printing
Up to 8 colors (CMYKW + spot colors)
ONYX RIP

DROP WATCHERS

Jetting analysis : voltage, pulse width, and frequency
Drop inspection : volume, velocity, and straightness
Statistical analysis
Simple printing (option)

COMPONENTS & CONSULTING

JETTING DRIVERS & POWERS

Applications: Graphics and material deposition
Drop control: A driver per a nozzle/channel/head
variable-dot grayscale imaging

CHEMICALLY RESISTIVE PRINTHEADS

Protecting printheads from chemical attack

PROCESS CONSULTING

Pre/post-treatment, rheology, printing, and simulation

Bar LCD ► ►

STI provides custom-cut LCD display solutions, including a variety of LCMs resized from an original LCD panel of the standard aspect ratio (4:3, 16:9), which are extendable to various digital signage applications.

Digital images delivered through STI's unique Bar LCDs are highly eye-catching and distinguished from images through other LCDs.

Bar LCD

CORE TECH

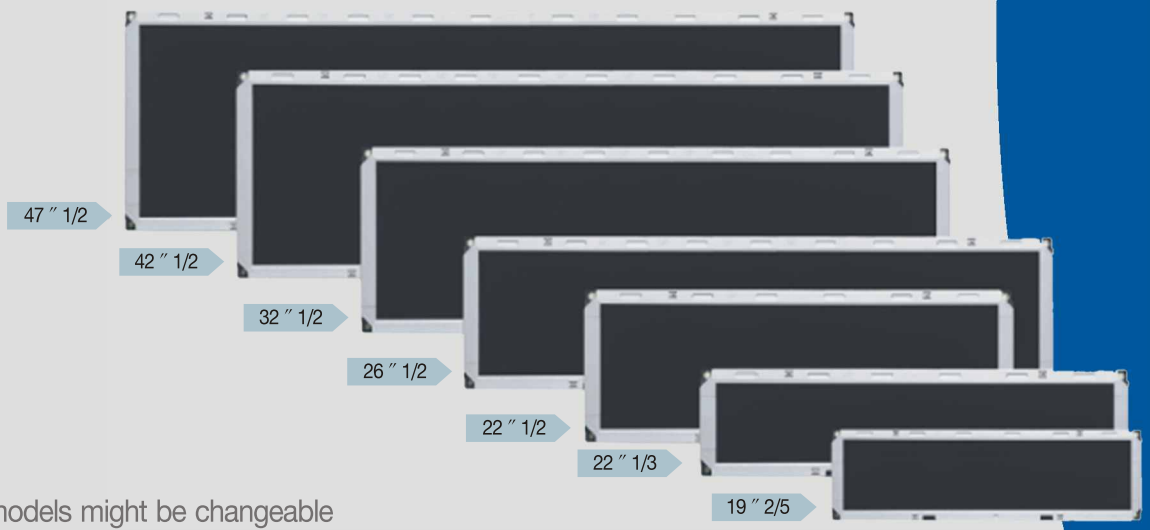
General Aspect Ratio LCD Module

[Original TFT-LCD]

Customized Aspect Ratio LCD Module

[Bar LCD]

PRODUCTS



※ These models might be changeable