



Modular Solvent Delivery & Collection Solutions



*Advancing Chemical Technologies
for Semiconductors, Clean Energy
& Life Sciences.*

CT | CONTROL
+ DELIVERY
+ BLEND
+ TANK
+ VMB

Redefine your delivery process.

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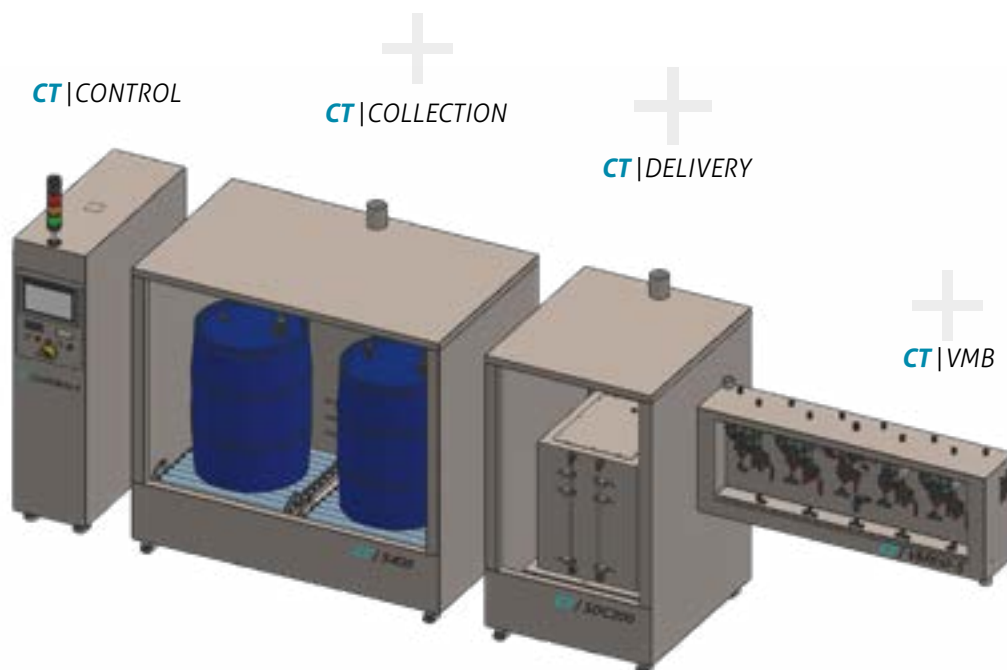
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MODULAR SOLVENT DELIVERY & COLLECTION SOLUTIONS

FAST CHEMTECH solvent delivery and collection systems, are meticulously designed with safety in mind, engineered to comply with applicable international design codes and standards, namely ATEX. The system is designed to collect solvent wastes from wafer production floors via gravitational flow into stainless steel drums or tanks and safe handling and distribution of ultra-pure solvents, from drums or totes to points of use across a fab-wide distribution loop using advanced pumping technology. The system is designed with stainless steel enclosures and wetted materials that are entirely conductive and grounded to prevent ignition from occurring. The implementation of innovative and inclusive design guarantees engineering for safety, streamlining operations in facilities.

Our systems offer:

- A configurable range for safe waste collection and delivery requirements and budgets
- A modular concept that can be adapted to our customer needs
- High reliability
- Integrated metrology options
- Easy maintenance



CT | CONTROL

CT | CONTROL-S Module is the centralised unit for the electrical components and control logic of the overall system with user interface to optimise the entire process through, enhanced safety, increased uptime and ensuring flow stability.

The module build utilises off the shelf components, industrial PLC and HMI control. Customer P&ID is clearly displayed with user friendly input and output screens, fluid path flow, recipe selection along with alarm logging.

System can collect Key Input Process Variables that allows engineers to have full visibility of their process.



PRODUCT	CT CONTROL
Height (mm)	1790
Width (mm)	400
Depth (mm)	1050
Key Features	CT CONTROL
HMI Touchscreen	✓
Industrial PLC	✓
FM4910 PVC_C Cabinet	✓
Safety Features	CT CONTROL
Audible alarms	✓
Stack light	✓
System E-stop	✓
Password protected user interface	✓
Password protected recipe manager for process parameters	✓

CT | DELIVERY MODULES

CT | DELIVERY-S Modules allow for the automatic delivery of ultra-pure solvents from different sized drums or totes based on defined application directly to the point-of-use (POU) via controlled pumping. The design philosophy aims to achieve high uptime and reliability through the use of multiple back-up modes, and the various modular layouts with easy interchangeability allowing the end user to swap format easily without having to replace the complete system. A truly flexible system that can meet your changing production needs.



Product	CT S2x25	CT S200	CT S400	CT S1000	CT S2000
Height (mm)	1790	1790	1790	1790	1790
Width (mm)	1160	924	1710	924	924
Depth (mm)	1050	1050	1050	1050	1050
Key Features	CT S2x25	CT S200	CT S400	CT S1000	CT S2000
Load cell display volume measurement	✓	✓	✓		
Tote empty notification				✓	✓
Auto-switchover	✓		✓		✓
AODD dispense pumps		✓	✓	✓	✓
Materials of construction	SS/PFA	SS/PFA	SS/PFA	SS/PFA	SS/PFA
304 Stainless steel cabinet	✓	✓	✓	✓	✓
Drum capacity	2 x 25L Drums	220L Drum	2 x 220L Drums	1000L Tote	2 x 100L Totes
Easyroll base		✓	✓		
HMI & PLC interface				✓	✓
Pre-mix recirculation sequence	✓	✓	✓	✓	✓
Leakproof quick connections	✓	✓	✓	✓	✓
Safety features	CT S2x25	CT S200	CT S400	CT S1000	CT S2000
Cabinet leak detection and door	✓	✓	✓	✓	✓
Audible alarms				✓	✓
Exhaust monitoring	✓	✓	✓	✓	✓
Semi, CE compliant	✓	✓	✓	✓	✓
110% spill containment	✓	✓	✓		
Password protected user interface				✓	✓
Password protected recipe manager for process parameters				✓	✓

CT | DELIVERY MODULES



CT|S2x25



CT|S200



CT|S400



CT|S1000



CT|S2000

CT | DELIVERY & COLLECTION MODULES

Delivery & Collection modules allow for the automated waste collection from processing systems, or pressure and flow controlled distribution of ultra-pure solvents to ensure stable processing.

Collected waste can be pumped to totes or drums for waste recovery and recycling.



Product	CT SDC200	CT SDC400
Height (mm)	1790	1790
Width (mm)	924	1710
Depth (mm)	1050	1050
Key Features	CT SDC200	CT SDC400
Weight-based volume readout	✓	✓
2 X 200L collection or delivery tanks		✓
AODD dispense pumps	✓	✓
DI water rinsing of tanks	✓	✓
SS316/PFA materials of construction	✓	✓
Safety features	CT SDC200	CT SDC400
Cabinet leak detection and door	✓	✓
Exhaust monitoring	✓	✓
Semi, CE, ATEX compliant	✓	✓

CT | DELIVERY & COLLECTION MODULES



CT|SDC200



CT|SDC400

CT | VALVE MANIFOLD BOX

The CT | Valve Manifold Box offers various standardised 4, 6, 8 and 10 stick configurations installed in the supply or return loop of Delivery & Collection Modules. The system features optimised layout and piping design to minimise equipment footprint and promote ease of installation, service and maintenance.

The system is designed to have a large enclosed door for enhanced safety and accessibility, as well as a built-in leak sensor with remote communications to detect leaks inside the cabinet.

VMB is user configurable depending on requirement for solvent or supply and return.



Key Features	CT VMB4	CT VMB6	CT VMB8	CT VMB10
Stick Configuration	4	6	8	10
Closed loop flow and pressure control	✓	✓	✓	✓
SS316 Cabinet	✓	✓	✓	✓
Safety features	CT VMB4	CT VMB6	CT VMB8	CT VMB10
Leak detection	✓	✓	✓	✓
Door safety interlocks	✓	✓	✓	✓
Manual Shut-off valves	✓	✓	✓	✓

CT | PROCESS CONTROL, METROLOGY & SAFETY

CT | PCMS is a range of additional components that can be added to a new or existing system to improve the control, measurement and safety to ensure accuracy and reliability of the slurry blend and system operation. These can range from InDrum mixing, filtration, concentration meter and KPIV publishing.



Single path filtration

- 10" PFA filter housing
- Auto rinse and N2 purge
- Pressure differential



Redundant pump

- Levitronix high purity pumps
- High MTBF
- Precision flow and pressure control
- Low shear



Inline solvent heater

- For temperature critical process

CT | PROCESS CONTROL, METROLOGY & SAFETY



Remote panel

- Remote HMI panel



Single or dual fire suppression option

- S/S Suppression nozzle
- Single or Dual IR Flame Detectors



Process Parameter Monitoring

- Modbus data protocol
- Real time data publishing
- Event driven alarm control
- Communication with external building management system (BMS)
- Data logging & trending

CT | CUSTOM PROJECTS

Most of our modular configurations meet the demands of our customers however some projects need bespoke customised solutions. We offer a consultation process that allows us to work closely with our stakeholders to define, understand and design a solution that meets their specific needs.

We have a partner network with significant solvent handling and processing knowledge and an experienced in-house team to provide the right solution for your process.





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