

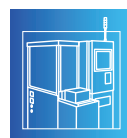


# DICING PERIPHERALS



Range & Solutions

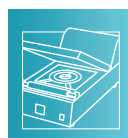
Full Dicing Solutions



Saws



Blades



Peripherals



## ADT DICING PERIPHERALS

ADT offers additional dicing peripheral equipment and accessories, such as auto wafer cleaner, water recycling system, spindle water chiller, semi-auto wafer mounting and more.



Scan to see  
our image  
video

### ADT'S DICING PERIPHERALS ADVANTAGES



Improve your process  
stability and accuracy



Reduce manufacturing  
expenses and conserve energy



Customized solutions  
for your specific needs



Gain a long lasting  
partnership and commitment

### PRODUCT GROUPS



#### Water Treatment Systems

Complete set of solutions for  
water recirculation and process  
stabilization

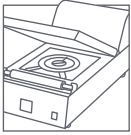


#### Wafer Handling Systems

Complete set of wafer mounting,  
cleaning and curing solutions

### QUALITY STANDARDS





SOLUTION RANGE

Wafer Cleaner

Designed for post-dicing workpiece cleaning and drying. Features a spinning chuck table and a rotating washing/drying arm



Water Recycling System

Closed loop design features ultra-filtration level particles removal with temperature, pressure and flow control for optimized dicing process



Auto Wafer Mounter

Engineered for the efficient, hands-free, rapid, uniform, and cost-effective mounting of workpieces onto tapes while maintaining high quality standards



Dicing Saw



Spindle Chiller

Closed-loop design for a stable flow and temperature spindle cooling water supply to achieve high precision and cutting quality



Manual Wafer Mounter

Designed for manual mounting, supporting various tapes, frames, substrates, and irregular shapes in multi-panel configurations



UV Curing Systems

Designed for post-dicing UV tape curing to reduce the adhesive strength for ease of workpiece removal



CO2 Injector

Designed to prevent particle adhesion and damage caused by ESD during the dicing process



# WATER TREATMENT SYSTEMS

## AR-927

### Water Recycling System

Closed loop design for uniform cutting water supply. The system recycles drain water thru filtering, cooling and pumping to maintain required purification, temperature and flow levels for optimized dicing, cost-saving and environmental care.

#### Features & Benefits

- Water recirculation - Reducing consumption by 95%
- Efficient cooling system - Reducing power consumption
- Self-Cleaning filter - Saving cost of maintenance
- Low environment impact
- Advanced User Interface (UI) for process monitoring and control

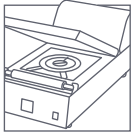
Flow capacity	Up to 20 L/min
Supply pressure	4.5 bar
Filtration level	0.02 µm
Circulation tank	80 Liter
Sediment tank	80 Liter
Water recycling	95% -99%
Temp. Setting range	10-25 °C
Stability	±1 °C
Cooling capacity	1600 W @ 20 °C
Gas (Refrigerant)	R-134A
Dimensions (W x D x H)	620 x 1280 x 1720
Weight (Empty/Full)	350/500

#### Addable Options

- Conductivity reading
- Surfactant dispenser
- Water deionization (DI) module
- Ultraviolet purification lamp







# 937

## Spindle Chiller



# 947, AB-47

## CO<sub>2</sub> Injector



Enhance your operational stability with an economical solution. Tailored for the closed-loop provision of spindle cooling water, this system ensures the maintenance of consistent, temperature-controlled water—an essential element in attaining exceptional levels of dicing precision and quality.

### Features & Benefits

- Water circulation - Reducing water consumption
- Precise control of water temperature - Mitigating thermal expansion to achieve superior dicing accuracy.
- High pumping capacity - Supporting up to 3 dicing saws simultaneously (low CoO)
- Touch panel LCD - Easy operation
- Unique pumping technology - Quiet operation, compact design and maintenance-free long life

High quality processing, contamination-free devices ADT 947 CO<sub>2</sub> Inline Injector is designed to eliminate particle adhesion and device damage caused by electrostatic effects. The units dissolve CO<sub>2</sub> gas into de-ionized water (DI) used for dicing or cleaning processes, thus performing consistent control over an optimal level of resistivity.

### Features & Benefits

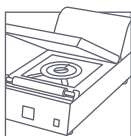
- Online monitoring and alarms
- Resistivity target and range setting
- Resistivity / Conductivity units display
- Dicing Communication

Water flow capacity	Up to 21 L/min
Cooling capacity	1000 W @ 20°C
Setpoint range	8°C – 35°C
Temperature stability	+/-0.1°C
Dimensions (W x H x D)	360 x 590 x 560 mm
Approx. machine weight	58 kg

	947	AB-47
Water capacity	3-10 liter/min	7-20 liter/min
Set point range	0.5 MΩ – 1 MΩ	
Line voltage	110/220 V 50 Hz or 60 Hz	
Machine dimensions (W x D x H)	190 x 446 x 365mm	190 x 492x 447mm
Approx. machine weight	10 kg	12 kg

### Options:

- Extended resistivity range
- Alarm buzzer



# WAFER HANDLING SYSTEMS

## 967, 967L

### Semi Auto Wafer Mounter



Crafted with the primary purpose of automatically affixing wafers onto tape, the ADT 967 Semi-Automatic Wafer Mounting System showcases a harmonious blend of intelligence and user-friendliness. This remarkable product holds significant value and is the ultimate selection for mounting during production processes.

#### Features & Benefits

- Automatic- Controlled process, hands free operation
- Small footprint – Tabletop design
- Quick and simple to use
- Minimal tape usage
- Flexible design – supports a wide variety of tapes & frames
- Can be customized for multiple substrates (multi-panel) and irregular frames.

	967	967L
Supported tapes	Dicing Blue-tapes / UV tapes	
Max. workpiece size	200mm (8")	300mm (12")
Supported film frames	DTF 2-8-1 ; DTF 2-6-1 350-103 ; 350-104	DTF-2-12 SEMI-G74
Temp Controlled Chuck heater	< 65°C	
Roller pressure	1-6 bar (adjustable)	
Mounting time	25 sec.	35 sec.
Machine dimensions (WxDxH)	655 x 590 x 560 mm	791 x 706 x 557 mm
Approx. machine weight	65 kg	85 kg

#### Options:

- Non-Contact mounting
- Electro-Static eliminator
- Rectangle frame support
- Auto frame size detector and cutter
- Top wafer surface lamination
- Communication and control features
- Special customized solutions

## 977, 977L

### Wafer Cleaner



Streamlined and effective cleaning solutions to bolster your operations. The ADT 977 Wafer Cleaner Systems are meticulously crafted for the purpose of cleaning workpieces subsequent to the dicing process.

Equipped with adjustable rotating cleaning arm with atomizing or high pressure cleaning nozzles to cope with wide range of cleanliness requirements

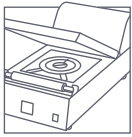
#### Features & Benefits

- Atomizing/ High pressure cleaning
- Automatic lid closing
- Intuitive control panel
- Process monitoring
- Compact design
- Robust, vibration-free
- Environmentally friendly
- Programmable sequence control

	977	977L
Max. workpiece size	Ø 8"	Ø 12" or 12"x12" square
Cleaning method	Atomizing cleaning / High pressure cleaning	
Number of recipes that can be saved	20	
Spinner velocity range	200–3000 rpm	200–2500 rpm
Machine dimensions (WxDxH)	410 x 625 x 946 mm	570 x 1250 x 1073 mm
Approx. machine weight	120 kg	200 kg

#### Options:

- CO2 injection
- Water resistivity monitoring
- Ionizer
- Surfactant additional nozzle and tank
- Tape-less cleaning
- Built in exhaust blower
- Special customized solutions



# 955, 955L

## UV Curing Systems



ADT UV Tape Curing Systems reduce the adhesive strength of all UV-sensitive dicing tapes under controlled environment.

### Features & Benefits

- Intuitive control panel
- Enable time control process
- Compact design
- Compliance with the highest safety standards
- Environmentally friendly

	955 (8")	955L (12")
Max. frame diameter	300 mm	400 mm
Exposure area	250 x 250 mm	Ø430 mm
UV wavelength	365 nm	
Number of lamps	6	18
Machine dimensions (WxDxH)	510 x 450 x 120 mm	645 x 526 x 180 mm
Approx. machine weight	20 kg	35 kg

### Options:

- Anti-ozone nitrogen diffusion kit
- Alarm buzzer
- Frame shutter

# 966, 966L

## Manual Wafer Mounter



Designed for manual mounting of workpieces on tapes. This system accommodates a wide range of dicing tape varieties and standard frames. It can be tailored to suit diverse substrates (including multi-panel setups) and unconventional frame shapes.

### Features & Benefits

Uniform tape tension and bubble-free mounting

- Temperature-controlled chuck heater
- Anti-static roller Reducing electrical charge
- Built-in vacuum holder
- UV back tape collector

	966	966L
Supported tapes	Dicing Blue-tapes / UV tapes	
Max. workpiece size	Ø 200 mm (8")	Ø 300 mm (12")
Supported film frames	DTF 2-8-1 ; DTF 2-6-1 350-103 ; 350-104	DTF-2-12 SEMI-G74
Temp Controlled Chuck heater	< 65°C	
Machine dimensions (WxDxH)	420 x 860 x 370 mm	550 x 1000 x 310mm
Approx. machine weight	45 kg	60 kg

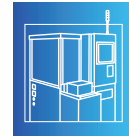
### Options:

- Electro-Static eliminator
- Plastic frame support
- Rectangular frame support
- Custom chucks and tailor made solutions

# ADT - Advanced Dicing Technologies

ADT is a one stop shop with end-to-end research, development and production, specializing in the development and manufacturing of **dicing saws, blades and peripherals** for a wide variety of applications: silicon- based ICs, Package Singulation and hard material Microelectronic Components (MEC). Our R&D department is known for combining deep technological know-how, vast experience and out-of-the-box solutions.

## Full Dicing Solutions



Saws



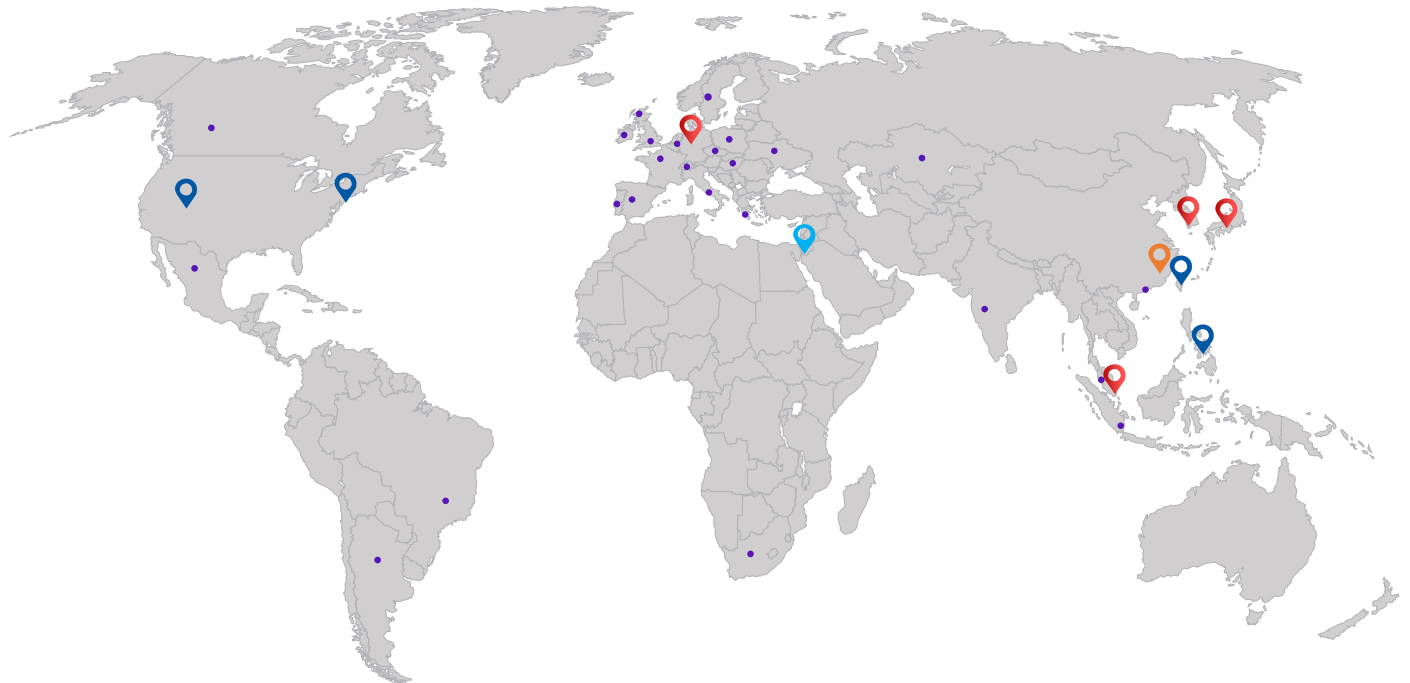
Blades



Peripherals

## ADT Worldwide

ADT offers a worldwide network of distributors, sales agents and independent representatives in Asia, USA and Europe, accompanied by a dedicated global service support team.



Corporate HQ

ADT International

ADT Offices

Regional

Reps / Dist.

### ADT INTERNATIONAL HQ – Yokneam, Israel

Two main production facilities:

- Dicing Consumables (blades)
- Dicing Equipment (Saw & Peripherals)

Global Marketing & Sales department,  
Engineering and R&D, Logistics,  
Maintenance & technical support.

### ADT REGIONAL OFFICES

ADT China – Shanghai

ADT Taiwan

ADT Philippines

ADT Singapore & Malaysia

ADT Inc. – East Cost PA, USA

ADT Inc. – West Cost AZ, USA



Scan to find  
a nearby  
distributor