

HiSpec XP

Dicing Solution Pre-Mix Injector

Introducing the HiSpec XP, our state-of-the-art pre-mix wafer dicing surfactant injector system. The HiSpec XP supplies automated premixed dicing solution direct to the saw nozzles. Supports mixing ratios in excess of 1 : 10,000.

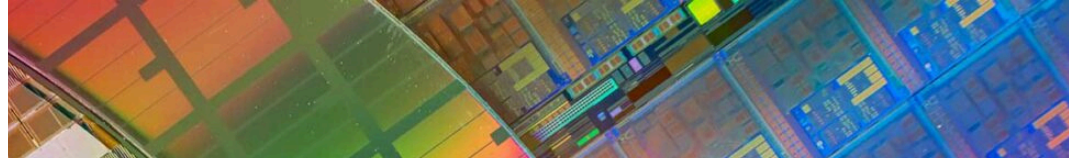
The HiSpec XP features separate electrical and pump modules for quick and efficient maintenance. Simply exchange modules for maintenance or upgrades to keep your system running smoothly with minimum downtime.

- Accommodates up to 4 high quality metering surfactant pumps (feeding up to 2 dicing saws).
- The integrated PLC supports flexible programming to customize system settings, offering enhanced control and adaptability.
- Premix automated directly from surfactant canister. No manual filling.
- Monitor and control precision surfactant dosing via touch screen interface.
- Integrates seamlessly into a variety of wafer dicing saws.
- Equipped with durable wheels, easy to reposition within your facility.
- Multiple automated warning systems minimize downtime
- Configurable upon order.



Pre-Mix Dosing	Flow Rate	Min: 1ml/min (0.02 GPH) Max: 33ml/min (0.53 GPH)
	CC per Stroke:	Min: 0.06ml/stroke (0.095 GPH) Max: 0.19ml/stroke (0.052 GPH)
	Stroke Speed	Stroke Speed: Min: 18 strokes/min Max: 180 strokes/min
Dicing Saw Dosing	Flow Rate	Min: 41.67ml/min (0.66 GPH) Max: 125ml/min (1.98 GPH)
	CC per Stroke:	Depend on stroke length setting
	Stroke Speed	Min: 0.067 strokes/min / Max: 200 strokes/min

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Dimension	Complete Machine with Electrical Module & Pump Module	1310mm (H) x 400mm (Width) x 800mm (Length)	
Injector Material	Enclosure:	Fully welded with 10mm Polypropylene (PP), Natural PP	
	Pump Module Door:	Polycarbonate (PC)	
	Hinges / Handles	Nylon	
	Tubing:	Nylon	
	Internal Fittings	SS304/SS316 Push-in fitting, SS304/SS316 ball valve	
	Internal Piping:	Sch80 UPVC Pipe, Joint with Low VOC glue	
Conectivity and Control	Input Voltage:	Switchable Power Supply: 100VAC or 220VAC, 50/60Hz single phase, 8 Amps	
	Environment Temperature:	10°C - 38°C	
	System Operation Control	Keyence PLC - 7" Touch Panel, controls all system operations. Capable of customizing dilution ratios. Standard programmed ratios: 1:500, 1:1000, 1:2000, 1:3000, 1: 4000	
	User Interface:	Keyence HIM 7"	
	Float Sensor:	To detect the surfactant level in the jerry can and activate when sufficient or stop when too low automatically	
	Hose Connections - Water Inflow/Outflow to Saw:	Connections matched to customer facility hoses	
	Flow Meter:	Flow meter to check the incoming DI water.	
	External Float Switch:	The system is equipped with fixed external level measurement with multiple trigger points.	
	Alarm System:		E/stop button for emergency cut-off of system
			Tower light for status visualization
		Buzzer for alarm notification	
		LED pilot lamp for mixing status	
		Leak detection on structure base	
Safety Features:	Leak Detection:	Integrated sensor system	
	Emergency Shutoff:	Manual and automatic shutoff capabilities	