

# Single Wafer Spin Processors




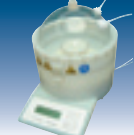


# Single Wafer Spin Processors

The versatile, high-quality, all plastic **POLOS** and **SPIN150** Single Substrate Spin Processors are specially designed for MEMS, R&D, typically low volume applications: **cleaning, rinse/dry, coating, developing** and **etching**.

The polypropylene **SPIN150** with its high speed precision motor, standard vacuum chuck, fragment adapter and syringe holder, 100 freely programmable programs, and capability for up to Ø160mm substrates, is a high-value, low-budget table-top unit.



CHEMICAL DISPENSE	MODEL	SUBSTRATE SIZE	
Manual Dispense	SPIN150	Up to Ø 160mm (4" x 4")	 <b>SPIN150</b>
	MCD200-NPP MCD200-PTFE	Up to Ø 260mm (6" x 6")	 <b>MCD200</b>
Automatic Dispense	ACD200-NPP ACD200-PTFE		 <b>ACD200</b>
Manual Dispense	MCD300-NPP MCD300-PTFE	Up to Ø 360mm (10" x 10")	 <b>MCD300</b>
Automatic Dispense	ACD300-NPP ACD300-PTFE		 <b>ACD300</b>

The more versatile **POLOS** series can be supplied as a **stand-alone table-top** unit or recessed **in-bench (OEM)** version: ranging from **manual (MCD)** to **fully automatic chemical dispense (ACD)**, in NPP or Teflon®/PTFE.

Various models are available for processing a wide range of substrates ranging from **small fragments up to Ø300mm** (and larger substrates on request), as standard with vacuum or mechanical chuck. Custom chucks are available for almost any application, making this the ideal tool for process research and development. Systems are constructed in Natural Polypropylene, or high grade Teflon®/PTFE (TFM1600®). The clear, transparent, hinged lid allows easy access to load/unload substrates to the chuck. The **gloved-finger friendly panel** with **backlit display** allows **easy programming** of: time, acceleration (adjustable in **1 rpm/sec.**) and spin speed: ranging from 1 to 10.000rpm (spin speed **accuracy 0.1rpm**). **Sub D9 pins connector** offers 2 extra programmable output signals.

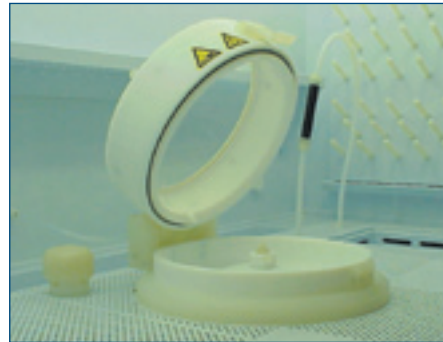


MANUAL/AUTOMATIC CHEMICAL DISPENSE	APPLICATIONS VS. MODEL	DRY	RINSE	CLEAN	ETCH	COATING MANUAL	COATING AUTOMATIC	DEVELOP	SUBSTRATE SIZE
Manual Dispense	SPIN150-NPP	✓	✓	✓	✗	✓	N/A	✗	Up to Ø 160mm (4" x 4")
	MCD200-NPP	✓	✓	✓	✗	✓	N/A	✗	
	MCD200-PTFE	✓	✓	✓	✓	✓	N/A	✓	
Automatic Dispense	ACD200-NPP	✓	✓	✓	✗	N/A	✓	✗	Up to Ø 260mm (6" x 6")
	ACD200-PTFE	✓	✓	✓	✓	N/A	✓	✓	
Manual Dispense	MCD300-NPP	✓	✓	✓	✗	✓	N/A	✗	Up to Ø 360mm (10" x 10")
	MCD300-PTFE	✓	✓	✓	✓	✓	N/A	✓	
Automatic Dispense	ACD300-NPP	✓	✓	✓	✗	N/A	✓	✗	
	ACD300-PTFE	✓	✓	✓	✓	N/A	✓	✓	

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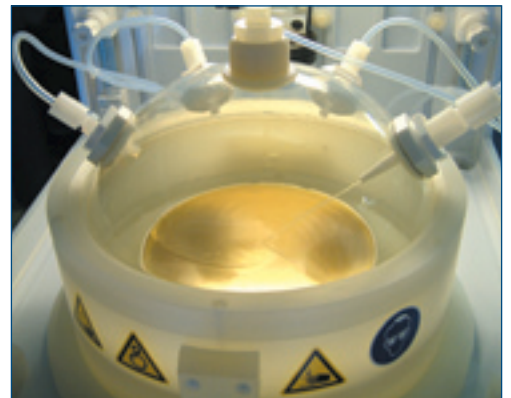
**POLOS** Spin Processors are available as OEM in-bench versions, featuring separate control panel for implementations at the front-side of the wet bench. (Table Top models have integrated keyboard.)



Standard **POLOS** MCD200 and ACD200 units are suitable for processing from fragments, up to Ø200mm or 6"x6" square substrates. Models are available for processing Ø300mm wafers and for larger substrates (up to 1000mm) on request.

MCD models feature a centre hole in the flat glass lid for manual fluid dispense. ACD models are supplied as standard with 2 spray nozzles (max. up to 6), corresponding suckback valves, and a central nitrogen diffuser in an ECTFE, dome-shaped lid.

All **POLOS** units and chucks are made out of Natural Polypropylene, or Teflon®/PTFE.



<p><b>Fragments</b> Dies, Wafer, Fragments, etc.</p>		<p><b>Round Substrates</b> Vacuum for 2" up to 300mm Wafers</p>	
<p><b>Low Contact</b></p>		<p><b>Round Substrates</b> (Vacuum and Centering pins)</p>	
<p><b>Square Substrates</b> Masks, Solar Cells, etc.</p>		<p><b>Round Substrates</b> (Mechanical and Centering pins)</p>	
<p><b>Regular Substrates</b> Laboratory Glass, etc.</p>		<p><b>Thin, Fragile Substrates</b> Foil, etc.</p>	

Customized vacuum or mechanical chucks are available for almost any application.

## Single Wafer Spin Processors

With options ranging from pressure vessels for chemical dispense, to chemical re-circulation heating, the **POLOS** systems offer you **complete process solutions**.



**Static barrier plate**



**Units for  
upto  
1 meter  
substrates**



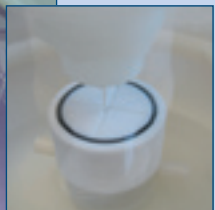
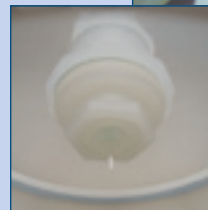
**Complete solutions**



**Vertical lid opener**



**Syringe Holder for  
controlled manual dispense**



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