



## SPIN 150i Specifications

Single substrate spin processor for cleaning, drying, coating, developing and/or etching of up to Ø160mm substrates:

- Full-Plastic System in Natural Polypropylene (NPP)
- Table-Top Model for manual or automated (optional) chemical dispense
- Transparent Lid with syringe holder for central dispensing
- Automatic safety lid lock with sensor interlock
- Detachable controller interface for easy integration
- N<sub>2</sub> diffuser for N<sub>2</sub> purge during process
- Easy, step-by-step recipe programming via large colour touchscreen
- Unlimited Program Storage for recipes with multiple steps / each for:
  - Time 0.1-99999 sec/step
  - Speed 0-12,000 rpm
  - Rotation direction (CW, CCW, puddling)
  - Acceleration / Deceleration 1-30,000rpm/sec, selectable per step
  - Vacuum On/Off
  - 3 Programmable Dry Contacts: e.g. for automated control of Dispense unit, Nitrogen diffuser, etc.
- Structured and password protected recipe storage for easy and safe management
- Digitally controlled Motor with digital incremental speed signal feed back



A-V36-S45-PP



D-V10-S50-PP  
on A-V36-S45-PP

### Standard included:

- (1) standard Vacuum Chuck A-V36-S45-PP-HD, Ø45mm for up to Ø6" wafers.
- (1) D-V10-S50-PP, Small Fragment Adapter (for Ø ½"- Ø 2" Pieces and Fragments optional) (Alternative chucks optionally available)
- Drain connection 1" male NPT (Exhaust Hose optionally available)





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### Performance:

Available number of programs:	Unlimited*
Steps per program:	Unlimited*
Spin speed:*	1 – 12,000 rpm** $\pm$ 1rpm steps
Spin speed accuracy:	$\pm$ 0.1 rpm **
Spin rotational direction:	Clockwise, Counter clockwise, Puddle
Max. acceleration:	30,000 rpm/sec**
Spin time	Unlimited*, $\pm$ 0.1 seconds steps
Free programmable outputs:	3 pcs, relays, nominal switching capacity 0,5 A/125 VAC – 0.3A/60VDC

### System data:

Housing material:	Natural Polypropylene (NPP)***
Process chamber material:	Natural Polypropylene (NPP)***
Interface:	Detachable, full-size touchscreen, glove-friendly, IP52, chemical resistant
External connection:	1 USB Port in the controller
Max. substrate diameter:	160 mm (or 4"x4" square)
Max. process chamber diameter:	202 mm
Dimension (desktop version):	274 (w) x 250 (h) x 451 (d) mm
Shipping weight:	14 kgs
Shipping dimension:	600 x 380 x 360 mm

### Requirements

Voltage:	100 - 120 VAC / 200 - 240 VAC 50/60 Hz (auto select)
Power consumption:	Max. 500 W
Max. current:	5A / 2,5A
Vacuum:	-65 kPa (-19 inchHg), $\geq$ 80 lpm tube OD $\varnothing$ 8mm
Motor purge gas:	20 - 50 kPa, 2-5 l/min, Tube OD $\varnothing$ 6mm
Drain connection:	1" M-NPT

\* Considering additional capability of standard unit such as USB backup, recipe cycling, PC software etc.

\*\* Measured without substrate, limitations may apply depending on chuck used and substrate specification.

\*\*\* For our spin processors and chucks we use **NPP-H** with  $\alpha$ -crystalline properties.

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