



# SPIN 150i Specifications

싱글프로세스용 스피너.

용도 :cleaning, drying, coating, developing etching up to Ø160mm substrates:

- \* 가능사이즈: up to Ø160mm wafer, 100mm x 100mm
- 재질 : Full 플라스틱 하우징(NPP) -옵션:테플론 가능
- 투명한 뚜껑 및 중앙에 디스펜싱용 시린지홀더 수동 디스펜싱 및 오토디스펜싱 가능(옵션키트 필요)
- Automatic safety lid lock with sensor interlock
- Detachable controller interface for easy integration :spin150i-Ind 형(글로벌박스 설치시 유리)
- 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
  - 회전방향 변경 가능 (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
- 고정밀 독일제 DC서보 모터 장착 최고의 Coating Thickness Uniformaty 실현 가능



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 (Optional) (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):   | 274mm(W) x 250mm(H) x 451mm(D) , 280 (d) mm (keyboard detached)             |
| 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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