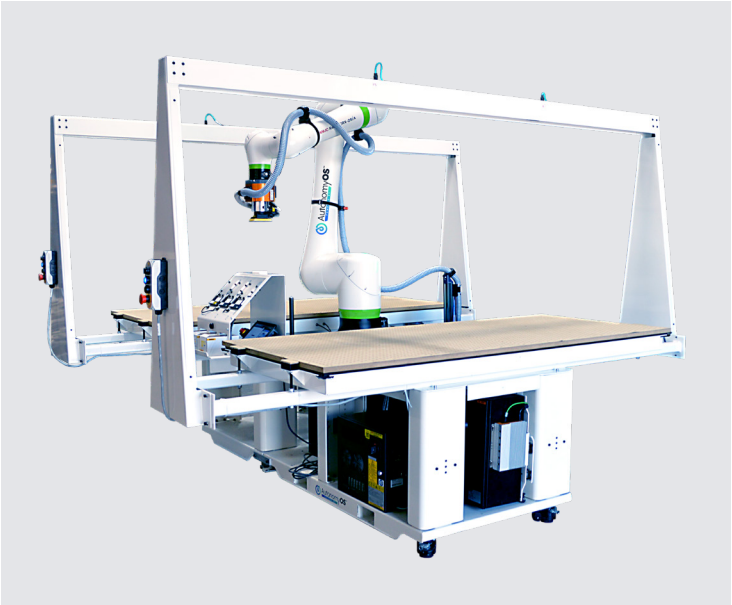
# Panel Sanding Assistant

Autonomous Robotic Sanding Powered by AutonomyOS™

omni ROBOTIC



| Sanding Capacity | |
|---|---|
| **Purpose** | Sanding raw MDF or hardwood and denibbing primed/painted panels |
| **Panel size Capacity** | Min. size: 100×100mm (4×4”)<br>Max. size: 2032×914mm (80×36”) |
| **Pocket size capacity** | Min. pocket size: 92×116mm (3.6×4.5”) |
| **Productivity** | Up to 500 panels per 8h, 135m$^2$ (1458ft$^2$)*<br>*Depending on the sanding parameters and loading conditions |
| **Motion Precision** | 0.1mm accuracy from detected edge |
| **Power Tool** | 1 - 45 Newton |

**The Panels Sanding Assistant offers autonomous sanding quality and performance In its simplest form.**

| Main Components |
|---|
| **Industrial 3D Camera (IP67)** |
| **Fanuc CRX-25iA cobot (IP67)** |
| 8 YEARS ZERO MAINTENANCE — 100% PROVEN INDUSTRIAL RELIABILITY |
| **Standard pneumatic orbital sander (square)** |
| **OmniBrain™ (Fanless industrial Server)** |
| **Operator friendly control panel** |

| Admin Ajustable Parameters | |
|---|---|
| **Tool Advance Rate** | 1 to 300mm/s (0.04 to 11.8”/s) |
| **Tool Force** | 1 to 50 Newtons (0.22 to 11.2 lb-f) |
| **Passes Overlap** | 0 to 100% |
| **Number of Passes** | Single or multiple |
| **Motion Precision** | 0.1 mm accuracy from detected edge |
| **Media Type** | Up to 3 different grits (120 to 400) |

| Generals Properties | |
|---|---|
| **Machine Footprint** | 3×3m (120×120”) |
| **Required # of operators** | From 1/2 to 2 people per machine, depending on the amount of secondary operations (manual) required and your team’s organization. |
| **Warranty** | 1 Year on main components |

| Power Requirements | |
|---|---|
| **Electrical** | 208 to 240 VAC @ 15A. |
| **Vacuum (min.)** | 1.5 kPa @ 20m3/min<br>(6“ of water @ 700 cfm) |
| **Pneumatic** | 5.5 bar @ 480 lpm (80 psi @ 17 cfm) |
| **Environment** | Temperature 0 - 45°C (32 - 113°F)<br>Humidity 0% - 90% non-condensing |

**To learn more, visit:**
omnirobotic.com/products/panel_sanding_assistant

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# Panel Sanding Assistant

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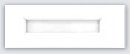
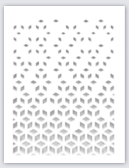
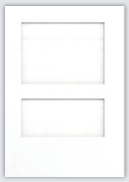
## Supported Style*

| | | | |
|---|---|---|---|
| | Flat panels | | Flat center panels with raised flat frame. Corner or fine moldings must be sanded by hand. |
| | Flat center panels with raised flat frame | | Frame only (no center panel) |
|  | dimension cavity (less than 92mm wide) |  | Perforated or grooved flat panels |
| | Flat center panels with minimally raised thin flat frame |  | Multi-cavity panels with asymmetrical framing |

*The size of the panel must be less than or equal to 2032×914mm (80×36")

## Unsupported Styles*

| | | | |
|---|---|---|---|
| | Cathedral or fretwork panels | | Shaped central corner panels |
| | Raised flat frame with molding | | |

*Panel sizes larger than 2032×914mm (80×36") are not supported

## Material Supported

| | |
|---|---|
| | Raw MDF |
| | Raw Wood |
| | Varnished Wood |
| | Primed MDF or Wood |
| | Painted MDF or Wood |

**To learn more, visit:**
omnirobotic.com/products/panel_sanding_assistant

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