

PSA 80 PRO

Cut Your Sanding Costs Without Compromise

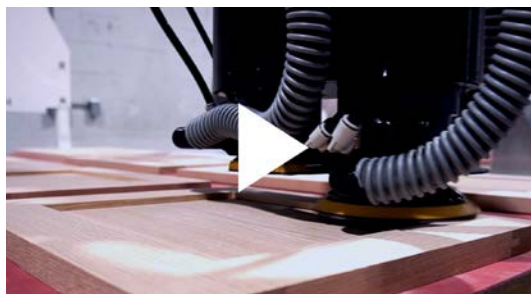
Starting at \$175,000 USD



PSA-80 PRO

BY OMNIROBOTIC

The PSA-80 PRO is revolutionizing woodworking operations, offering a cutting-edge, cost-effective alternative to traditional sanding labor. Designed with advanced technology, the PSA-80 PRO is engineered to address the industry's most pressing challenges—labor shortages, high turnover rates, and the complexity of sanding jobs—while delivering unmatched precision and productivity.



Start Reducing Your Sanding Operation Costs With the PSA-80 PRO

Click the image or scan the QR code to watch the video.

Automate Tough Finishing Tasks with Intelligent Robotics

With customizable presets for various door types, including hardwood, MDF, veneer, and lacquer, and the ability to integrate seamlessly into existing operations, the PSA-80 PRO helps cabinet finishers reduce costs while enhancing production quality and speed.



Boost Productivity

Achieve faster, more precise sanding with an automation solution that minimizes the need for rework and enhances your workflow.



Labor Savings

Automate sanding tasks and streamline operations to reduce reliance on manual effort, enabling more efficient use of human resources.



High-Quality Finish

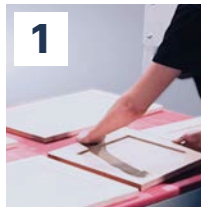
Equipped with advanced 3D vision and FC-40™ force control, the PSA-80 PRO delivers consistent results on a variety of woods, including cabinet doors, making it an essential woodworking robot for your finishing needs.

So simple! Anyone can use it

Achieve flawless finishes effortlessly with the PSA-80 PRO, designed specifically for woodworking and cabinet makers. In just three simple steps, you'll see how easy it is to bring professional-grade precision to your sanding operations. No specialized training is required—a quick 2-minute walkthrough is all it takes to get started.

Simple Operation

Using the PSA-80 PRO is as easy as 1-2-3:



1

Position your panels anywhere on the machine

No need for precise alignment or time-consuming adjustments



2

Press Start

The PSA-80 PRO's advanced 3D vision and AutonomyOS™ take care of the rest.



3

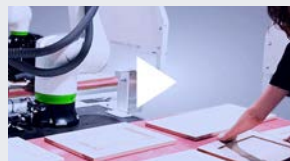
Experience flawless, professional-perfect finish

Consistently high-quality results, every time.

Effortless Precision Redefined

PSA-80 PRO The Easiest Sanding Robot on the Market

- **Easiest to operate:**
No screen. One Button operation. Anyone can use it.
- **Easiest to adjust:**
Self tools registration.
- **Easiest to turn on:**
Just flip a switch.
- **Easiest to work with:**
One setup for any type of door (slab, frame, shaker, multi-panels...)



PSA-80 PRO The Easiest Sanding Robot on the Market

Click the image or scan the QR code to watch the video.



The PSA-80 PRO sands 30% more doors a day than any other robotic sander on the market

PSA-80 PRO The Fastest Sanding Robot on the Market

- **Fastest door sanding:**
13 seconds to complete one sanding pass on a 20"x14" raised panel door.
- **Fastest switching time between doors:** 5 seconds.
- **Fastest switching time between tools:** 2 seconds.
- **Fastest loading/unloading time:**
0 seconds, thanks to the pendulum cycle.
- **No break for the robot:**
Give your team a well-deserved break. Enjoy up to 20 minutes of hands-free productivity!



PSA-80 PRO The Fastest Sanding Robot on the Market

Click the image or scan the QR code to watch the video.

Unmatched Productivity



Autonomy for 20 Minutes: Thanks to its intelligent design, the PSA-80 PRO allows employees to focus on other tasks while it handles sanding autonomously.



High-Speed Performance: Designed to process multiple doors quickly and efficiently, the PSA-80 PRO boosts your productivity to new heights.



The PSA-80 PRO carries Omnirobotic's best force controller, the FC-40™

- **Ultimate sensibility**
(+ /- 1 Newton control (0.2 lb-f)) ensuring
superhuman sanding consistency
- **Best Linear response**
- **Best Dynamic response**
- **Best Accuracy** (0.1 mm from edges)
- **Minimal tool inertia** (lowest suspended mass for
super smooth sander landing)
- **Smooth pad landing trajectory**
- **Precise speed control**
- **Omnirobotic's proprietary APC™**
feature (Active Pitch Control)



The PSA-80 PRO carries
Omnirobotic's best force controller,
the FC-40™

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to watch the video.

Revolutionizing Precision and Versatility in Door Sanding

The PSA-80 PRO stands out as the only
product on the market offering constant
parallelism control between the tool's
sanding pad and the panel, ensuring
precision and consistency.

Equipped with advanced sanding patterns, it
uniformly sands every area of the door for a
flawless finish.

Additionally, the PSA-80 PRO automatically
switches between tools, seamlessly
reaching and sanding cavities in doors.

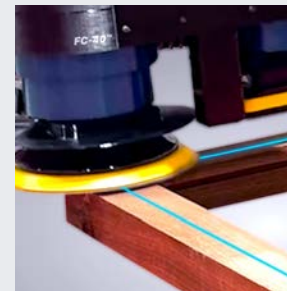
With sophisticated sanding patterns, the PSA-80 PRO can uniformly sand each area of the doors.



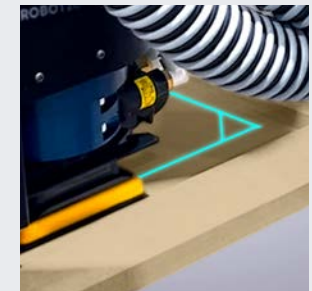
Criss-cross pattern
optimizes sanding toolpath
for MDF/HDF sanding.



Raster pattern, ideal for
hardwood doors.



**Butterfly external corner
sanding** allows for perfect
sanding of corners without
burning through the thin
lacquer of primer coat.



**Butterfly internal corner
sanding** is ideal for putty
removal on 5 piece doors.

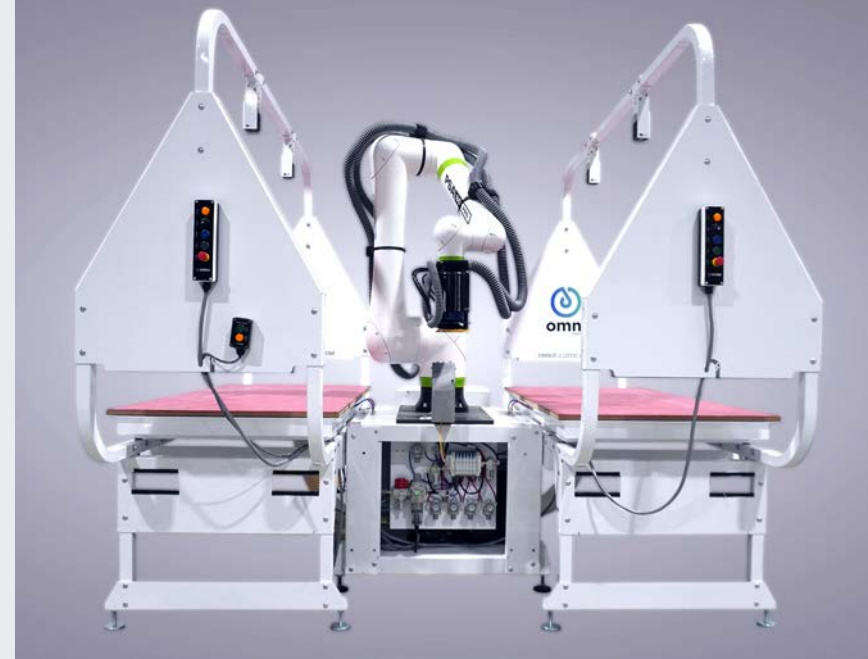
Advantages

Powered by AutonomyOS™, the PSA-80 PRO operates autonomously. Simply place any number of doors, anywhere on the table, and the system will automatically detect, analyze and execute the required tasks without manual input.

- **The fastest sanding robot on the market:** Sands 30% more panels a day than any other robotic system.
- **Best sanding quality on the market:** Don't take our word for it, bring your doors and experience it firsthand.
- **Omnibotic's FC-40™, our best force controller:** Combined with the APC™ feature, ensures every door is sanded to perfection with optimal pressure.
- **The easiest to operate:** with just 2 minutes of training, anyone can run the PSA-80 PRO, regardless of the door geometry.
- **Easy installation:** No need for an air duct, comes with vacuum and dust extraction system.

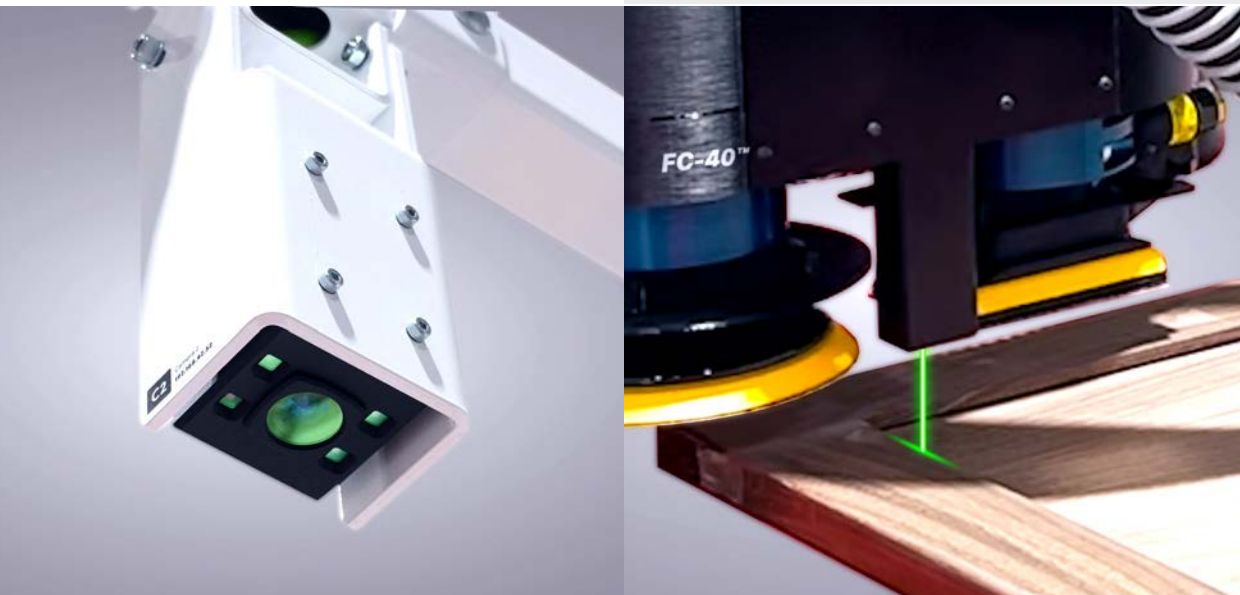
Key Features

- **Powered by AutonomyOS™:** The machine sees in 3D and self-determines each door style (slab, frame, shaker, multi-panels), so anyone can use it without training.
- **Simple operator interface:** Simple mechanical buttons operator interface (2 minutes training) reducing operating cost.
- **Pendulum cycle boosts productivity:** by maintaining the robot working during loading time, the pendulum principle boosts productivity by minimizing downtime.
- **Large Dual Table design:** Enjoy up to 20 minutes of hands-free productivity!
- **Dual-Tool with Force Control:** Maximize productivity and versatility by automatically selecting the best sander head for the job.
- **Automatic Registration:** Autonomous machine Registration eliminating the need for costly mechanical adjustments.
- **Robust and low maintenance:** IP67 Robot reducing operating cost.



Adjustable Sanding Parameters

- **Adjustable sanding speed** @ +/- 1 mm/s and sanding overlap @ +/- 1mm
- **Custom Sanding Presets for each door section** (Slab, Panel, Cavities, Raised Panel and Rail and Style) for impeccable sanding.
- **Adjustable force compensator** allowing to set two sanding forces from 15 to 40 Newtons for each sander head, ensuring super human sanding consistency.
- **Automatically selecting the best tool** to access cavities in doors.
- **Criss-cross pattern** optimizes the sanding toolpath for MDF and HDF doors.
- **Raster pattern**, ideal for hardwood panels.
- **Ultra-consistent scratch pattern**, perfect for stain preparation.
- **Butterfly external corner sanding** allows for perfect sanding of corners without burning through the thin lacquer or primer coat.
- **Butterfly internal corner sanding** is ideal for removing putty on 5 pieces doors
- **Collision prevention** using 3D perception avoiding downtime and reducing operating cost
- **Media wear timer** reduces operating cost by maximizing media usage.
- **1 Year Warranty**
- **1 Year included Remote Support** (requires an internet connection).



Let's Connect

Ready to take your woodworking operations to the next level? Contact us today to schedule a demonstration or learn more about how the PSA-80 PRO can revolutionize your business.

Contact Us

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Omnirobotic—Autonomous Robots. Trusted by Industry Leaders.

