

FINISH QUALITY YOU CAN FEEL:

HOW BALANCED BODY USES SANDROB™ TO MAKE PREMIUM PILATES REFORMERS AT SCALE

Balanced Body builds premium Pilates equipment where the finish of the wood frame is a defining part of the product experience. Smooth radii, blended transitions, and consistent edges are details their customers notice instantly. But the craftsmanship required to achieve that tactile finish had become the limiting factor. They needed a way to grow production without losing the tactile quality that defines their brand.

IDENTIFYING THE BOTTLENECK

A cycle-time study revealed that **sanding consumed up to 70% of labor time** on key products. The biggest doubt wasn't about robotics, it was about touch. Could an automated system blend curves and radii with the same softness and control as a seasoned finisher?

During evaluation, Harbir Singh, Engineering Manager at Balanced Body, saw SandRob™ replicate the wrist-like blending motion operators use to smooth transitions, adjust pressure across complex contours, and avoid burn-through on veneer. That's when he and the team began to see the potential.

During testing, even their most experienced finishers agreed that the tactile quality held.

“When I saw the robot doing the wrist action in the software, that’s when I was convinced it could actually work for our finishing”

Harbir Singh, Engineering Manager at
Balanced Body

PRESERVING THE BRAND STANDARD

SandRob™ now performs the heavy sanding, blending radii, and smoothing transitions across Balanced Body's complex wooden frames. Operators handle only the ergonomic final pass, preserving the handcrafted feel with far less strain.





BALANCED BODY TRUSTS SANDROB™

SandRob™ was the finishing solution for Balanced Body capable of matching their artisan's touch while decreasing the amount of labor time spent on sanding. The advanced features of SandRob™ make it the perfect solution for high-end wood finishing.

FEATURES

WRIST-ACTION BLENDING

Achieve smooth, continuous transitions customers can feel by replicating the rotational wrist movement that skilled hand operators use to blend curves and soften edges.

FEATURES

ADAPTIVE PRESSURE CONTROL

Automatically adjusts pressure across flat planes, curves, grain shifts, and sensitive veneer areas to avoid burn-through and chatter. Resulting in consistent finishes throughout the entire product.

FEATURES

REPEATABLE WORKFLOWS





SandRob™ handles the demanding sanding work, while operators work on the final touches of the product. Reduce fatigue and increase morale with a more efficient workflow for operators.

30% INCREASE IN WOOD SHOP THROUGHPUT

Higher volume, same team, same footprint, driven by removing the bottleneck at the finishing stage of production



Learn More about SandRob™:

-  roboticom.it
-  [@roboticom_it](https://www.instagram.com/roboticom_it)
-  [/roboticom](https://www.facebook.com/roboticom)
-  [roboticom](https://www.linkedin.com/company/roboticom)

