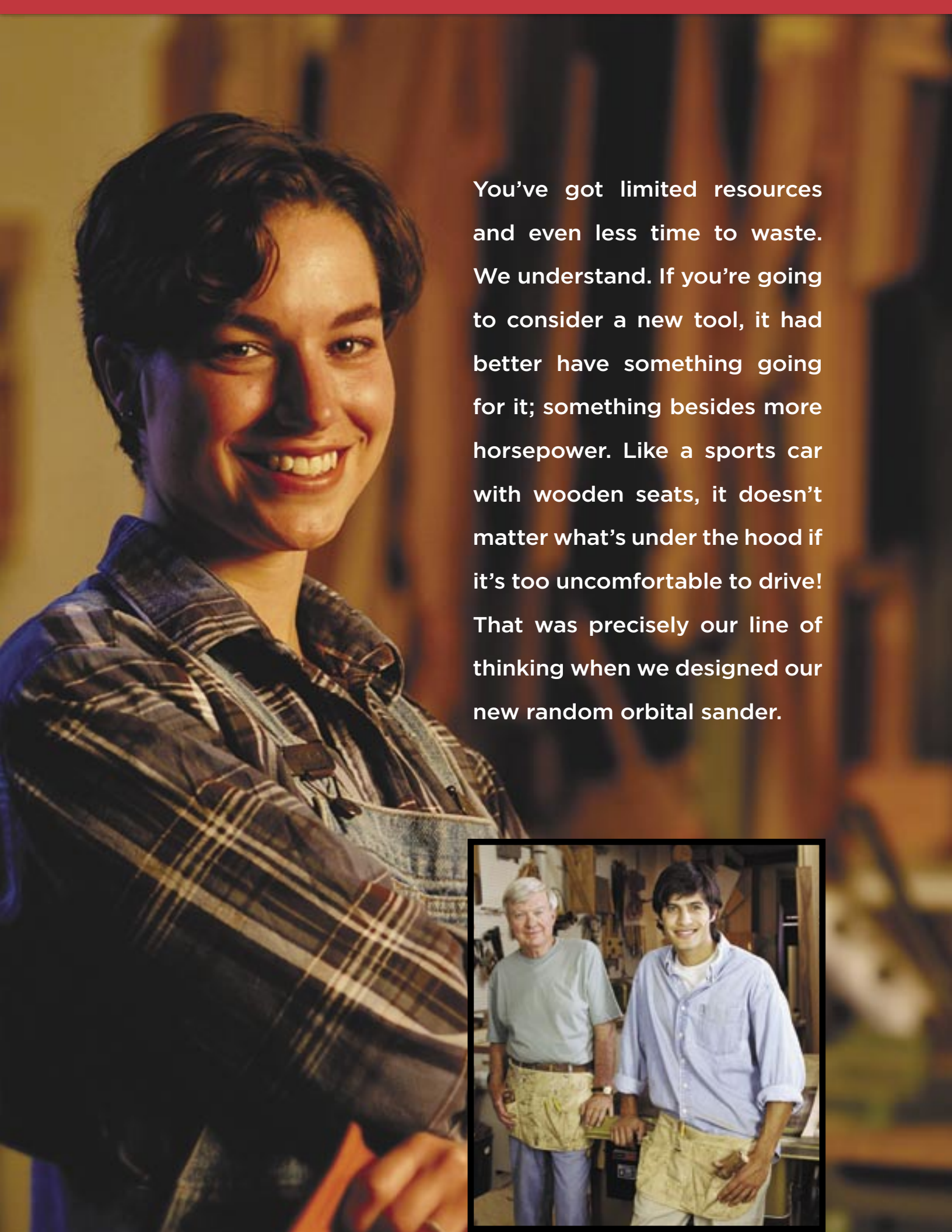




**INTRODUCING  
THE NEW RANDOM ORBITAL SANDER  
FROM SIOUX TOOLS.**

*Hands down,  
the most comfortable  
sander made.*





You've got limited resources and even less time to waste. We understand. If you're going to consider a new tool, it had better have something going for it; something besides more horsepower. Like a sports car with wooden seats, it doesn't matter what's under the hood if it's too uncomfortable to drive! That was precisely our line of thinking when we designed our new random orbital sander.



# A concept so simple, anyone can grasp it.

The more comfortable the sander, the more productive the worker. The idea is simple; designing it was more challenging.

We began with a single universally adaptable grip. Soft and asymmetrical like the human hand, it rotates and locks into 24 indexable positions, allowing it to fit virtually any hand shape or size and adapt to right- or left-handed users.

We redesigned the power lever, contouring it to fit along the muscles at the base of the thumb. Power is engaged when the hand is in a normal resting position, allowing you to work for extended periods of time.

We designed a tough 12,000 rpm motor with dual vibration dampers and a one-piece precision-machined counterbalance. So the tool delivers all



the power you need while reducing the vibration level. The result? More power – less fatigue.

After thorough research and careful analysis of the user's preferences, we incorporated their input into this design. We made it the most serviceable sander on the market, one that you can disassemble, replace the motor cartridge and reassemble in under two minutes. We added a patented dust shield that prevents dust and airborne contaminants from clogging the bearings. To top it off, we engineered it with powerful pneumatics that run on only 13 SCFM.

All in all, it represents a dramatic departure from what you're used to. Incredibly easy to pick up and very difficult to put down.

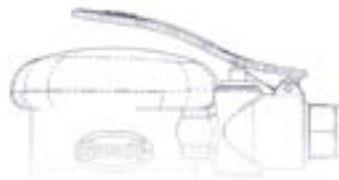


## ONE GRIP FOR ALL USERS

- Asymmetrical and soft textured for a more natural feel.
- Rotates through 24-positions in 15 degree increments to accommodate various hand sizes and shapes and adapts for right- or left-handed users.
- Notched nibs prevent the grip from slipping to help maintain a firm but comfortable hand position.

## ADVANCED SPINDLE DESIGN

- The spindle is stepped to accommodate a larger bottom bearing. The larger bottom bearing results in longer life and also lowers the risk of end-plate damage during disassembly.
- By precision balancing the spindle crank, we were able to reduce motor vibration even further.



## NATURALLY CONTOURED POWER LEVER

- Smoother S-shape fits more comfortably in the palm. And the natural hand position engages the power, helping to reduce fatigue.



## INTELLIGENTLY DESIGNED MOTOR

- Molded-in orientation mark makes it easy to align the motor for assembly.
- The one-piece precision-machined counterbalance and dual vibration dampers dramatically reduce vibration and fatigue.
- Patented dust shield prevents airborne particulates from entering the motor housing and bearings and improves the overall life of the tool.
- Heavy-duty motor generates 12,000 rpm (no-load) with pads up to 6" in diameter.
- Double-stacked bearings provide greater rigidity.
- A single-center sealing o-ring replaces hard-to-handle inlet rings, making this one of the easiest motors to install and service.



## ORBIT-IDENTIFYING LOCK RINGS

- Lock rings are color-coded and dual embossed allowing you to quickly and accurately identify orbit diameter at a glance.
- Lock rings are also externally mounted, allowing the user to disassemble the tool and replace the motor cartridge in under two minutes.

## MORE THOUGHTFUL PNEUMATICS

- An airflow regulator gives the operator control over speed.
- The Sioux universal vacuum hose connector fits your existing central vacuum system. The hose connector also swivels to eliminate kinking.
- Air inlet is repositioned lower on the tool so as not to interfere with the natural position of the wrist.

# Easy to use. Easy to choose.

We didn't just make this sander more comfortable to use, we made it more comfortable to choose as well. Using the universal motor as a base, you choose the pad diameter, orbit size, vacuum option and pad type you need. In all, there are 60 combinations to suit virtually any application.

The model number of your specific sander reflects the options you choose and are always listed in the following order:

**Pad Diameter + Orbit Size + Vacuum Option + Pad Type.**



Pad Diameter		
Code	Pad Dia (inches)	Metric (mm)
30	3"	75
35	3.5"	90
50	5"	125
60	6"	150

**RO2512-50**



Orbit Size		
Code	Orbit (inches)	Metric (mm)
F	Finishing - 3/32"	3
S	Standard - 3/16"	5
C*	Coarse - 3/8"	10

**RO2512-50F**

*\*Coarse orbit not available for 3" and 3.5" pad sizes.*



Vac Option (Not laser marked on tool)	
Code	Vac Option
N	Non-Vacuum
R	Remote Vacuum
V	Venturi Vacuum

**RO2512-50FR**



Hook      PSA

Pad Type (Not laser marked on tool)	
Code	Pad Type
P	PSA
H	Hook

**RO2512-50FRP**

So a RO2512-50FRP, for example, refers to a 5" pad, 3/32" orbit size, remote vacuum option, and a PSA pad type.



**RO2512-50FRP**

## True innovation is built by hand.

When it comes to innovation, nothing is automatic and nothing can be taken for granted, especially with a tool that has been around for more than half a century. So when Sioux Tools set out to design a truly innovative pneumatic random orbital sander, we not only researched and analyzed user preferences, we studied the anatomy of the human hand.

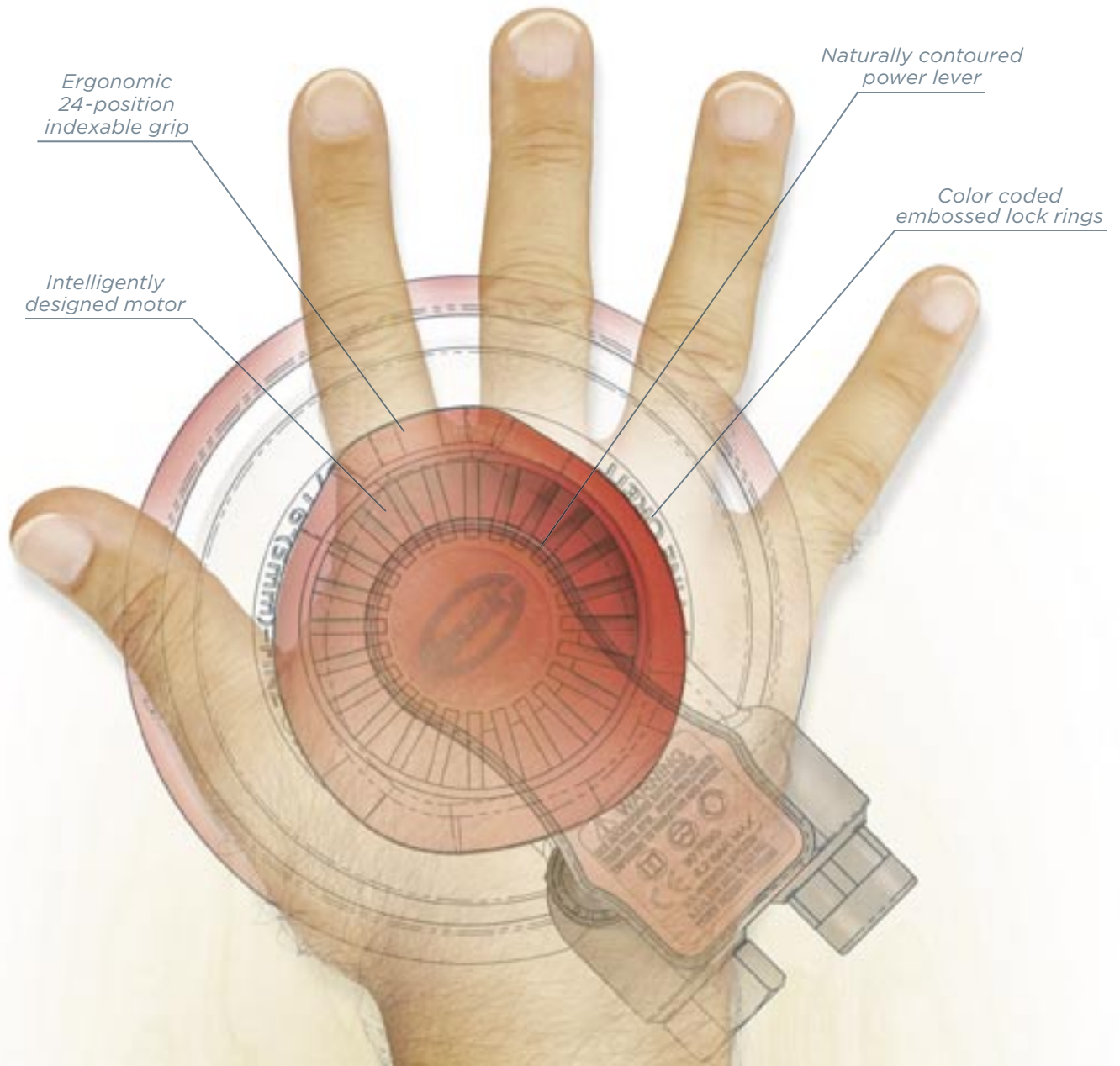
### ***What we learned was enough to start a revolution.***

First, we realized that the human hand isn't symmetrical and no two are identical in shape or size. Why then, we wondered, should the grip on your sander be? We noticed how the thenar muscles (connecting the thumb to the forearm)

bunch together at the base of the thumb and figured it made more sense to contour the lever to fit the shape of the palm. We learned that by reducing the strain on the extensor indicis muscle, which controls the index finger, we could reduce muscular strain on the forearm.

Handy little insights like these led us to design a radically new random orbital sander that's easy to pick up and hard to put down. In fact it's safe to say that once you hold it, you may never feel the same way about a random orbital sander again.

Hands down, it's the most comfortable pneumatic sander ever developed... ***no matter who is handling it.***



# Tools for the way you work.

For nearly a century Sioux has been making tools that make sense. As a pioneer of industrial pneumatic and handheld power tools, we've been outfitting professional craftsmen like you since 1914; pros who know what they need and refuse to settle for less.

Today, Sioux is a trusted supplier of quality-built tools for the world's most demanding industrial manufacturing, assembly and finishing operations. As a member of the Snap-On family of industrial tools, we provide the worldwide distribution and support you expect from an industry leader.

For more information on the new random orbital sander from Sioux or our more than 800 industrial tools, visit us at [www.siouxtools.com](http://www.siouxtools.com)  
To find your nearest distributor of Sioux Tools, call 800-722-7290.



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## SPECIFICATIONS

CE

Power	0.25 hp (0.19 kW)
Free Speed	12,000 RPM
Air Consumption, Free Speed	13 SCFM (6 l/s)
Sound Level	81 dBA
Spindle Thread	5/16"-24
Height	3.26" (83mm)
Weight	1.5 Lbs (0.7 kg)

## GENERAL

Air Inlet Size: 1/4" NPT
Recommended Hose Size: 3/8" (10mm)
Performance rated @ 90 psig (6.2 bar) air pressure
Standard Equipment: Parts List, Safety & Instruction Manual, Backing Pad and Spindle Wrench
Eye protection must be worn while operating power tools.

U.S. Patents 5,879,228; 6,616,518; 6,343,982. Other patents pending.

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