

A Purchasing Manager from North Carolina pointed out that “Sioux has taken maintenance one step further with it’s Hassle-Free Drop-In Motor that requires no press fit parts or shims. You literally take the old motor out and just drop in the new one. For me it was a real game changer.”



The numbers tell the story. Statistically, the average life of an Air Tool is 5.8 years while the average life of an Electric Tool is 2.3 years. When you compare the cost of replacement between the two - Air Tools have a 2.5x advantage.

### CONCLUSION

The consensus from our talks with Purchasing Managers from Steel Fabricators across the country weighed heavily in favor of Pneumatic Tools. Based on their experience, Pneumatic Tools met all the criteria for lifetime value and production output. In their estimation, Pneumatic Tools provide the best return on investment.

### ADVANTAGE AIR TOOLS

Longer Life, Cost Less.

SIOUX offers innovative, high quality pneumatic tools for a wide array of industrial manufacturing, assembly and finishing applications.

For an in-depth look at other applications, ask your SIOUX salesperson or distributor for our companion brochures.



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See the full line of SIOUX products:  
[www.siouxtools.com](http://www.siouxtools.com)

SIOUX Tools Available From:

The information contained herein is for informational purposes only and is not intended to provide instruction or to serve as a training manual. Applications for the tools described herein may vary. Additional and different steps or procedures may be required to properly complete a given task. Always wear safety glasses when operating power tools.

#8 in an  
Education Series

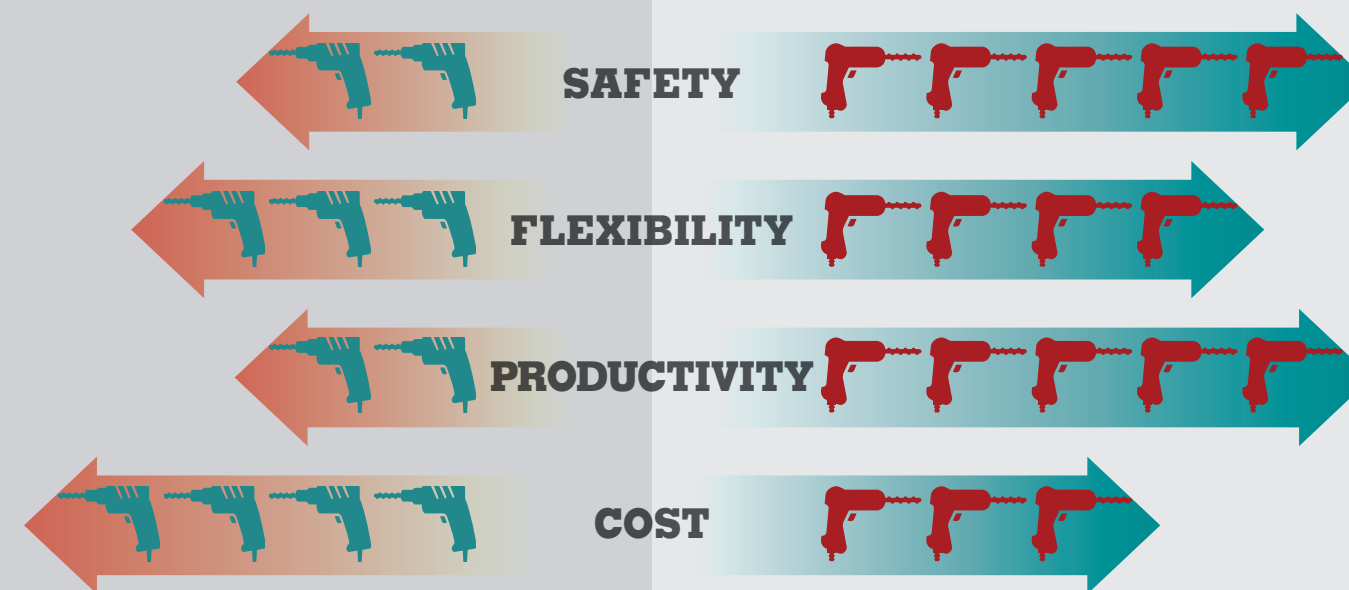
### KNOWLEDGE IS POWER

Everything you need to know about Electric vs. Air Tools



### CALCULATING THE LIFETIME VALUE OF ELECTRIC TOOLS VS AIR TOOLS.

In a study speaking with Purchasing Managers at Steel Fabrication plants across the country it was clear they have a specific set of criteria when evaluating the economic effects and other important benefits when purchasing tools.



## SAFETY



Purchasing Managers were quick to point out how often workers use tools where moisture, conductive materials and flammable liquids are present.

Under these circumstances, Electric Tools have been known to cause electric shock or accidentally ignite fires due to damaged cords, shorts or faulty wires. Even a worker's sweat can pose a danger.

Pneumatic Tools use compressed air to power the motor so they run cool and do not normally spark. This helps eliminate the risk of electric shock, fire or burns.

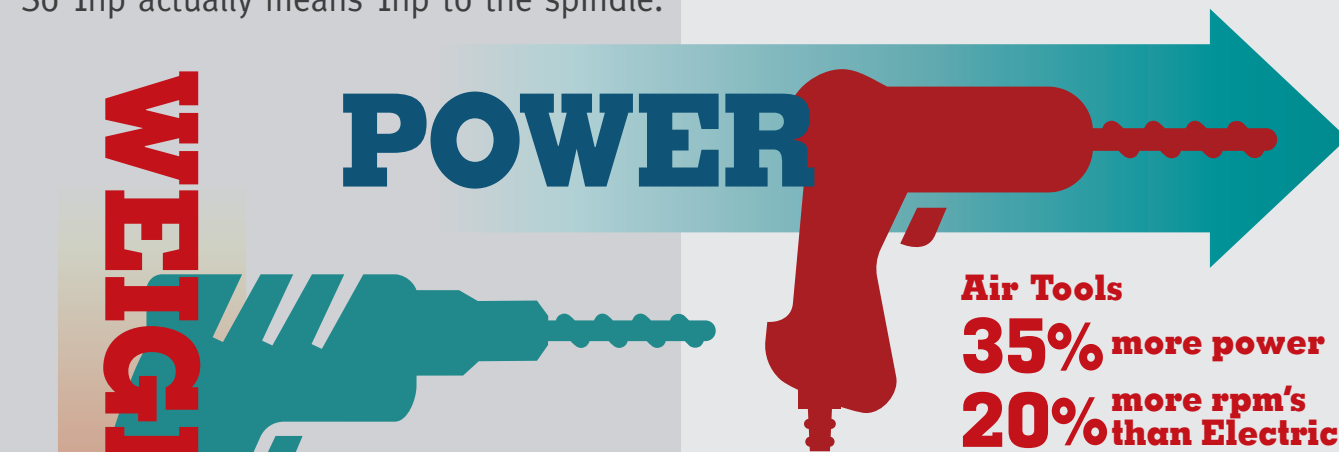
### ADVANTAGE AIR TOOLS

Help Eliminate Risk of Shock, Fire and Burns.

## PRODUCTIVITY

Many Purchasing Managers thought they were being misled about electric tools. The reason being Electric Tool manufacturers rate the power of their tools by the wattage fed into the electric motors. But, in reality only 50% to 60% of the input power actually reaches the spindle.

However, Air Tools are rated by the measured power coming out of the tool. So 1hp actually means 1hp to the spindle.



Electric Tools  
**33%-50%**  
heavier than  
Air Tools

Electric Tools on average weigh 33%-50% more than Air Tools. On average, Air Tools have 35% more power and 20% more rpm's than Electric and are smaller making them easier to handle. This combination of actual power and lightweight reduces fatigue allowing operators to work longer, maintain better running speeds and increase productivity.

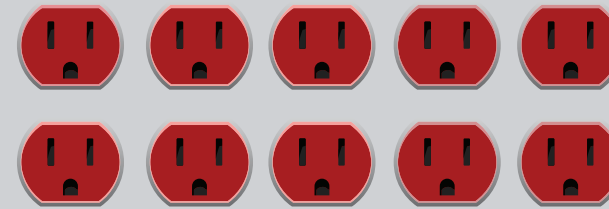
A Purchasing Manager from Illinois observed, "Once I switched the plant to Air Tools, operators were taking less breaks due to arm fatigue."

### ADVANTAGE AIR TOOLS

More Power, Less Fatigue, Greater Productivity.

## FLEXIBILITY

Electric Tools require an electric power source near point of use. Air Tools are flexible and if air is available workers can operate even in the most remote areas of the plant since no electricity is needed. Plus, one air compressor can be used to power multiple and even up to a hundred Air Tools.



### ADVANTAGE AIR TOOLS

One Power Source Required.

## COST

The total cost of ownership is always central when purchasing a tool. Air Tools cost more upfront and you need to purchase an Air Compressor in order to use them. But after all is said and done, many purchasing managers said in the long run Air Tools cost less.

The reason is Air tools run longer between service intervals, which makes maintenance less expensive on the back end. For example

60-120 hrs

Electric Tools typically run between 60-120 hours and then need new brushes or maintenance on other parts. After the armature is worn the tool is cost prohibitive to repair.



Air Tools typically run up to 2,000 hours before any maintenance is needed. What's noteworthy, is the most common replacement parts are available in kits making basic service or rebuilds easy. This keeps Air Tools going for years.