

## ANNUAL SAVINGS CALCULATOR

Most importantly, **WE SAVE YOU MONEY.** No costly utility upgrades, just efficient, reliable power for your HVAC system.

**\$933.50/year**

**Typical Woodworking System Installation, Estimated Annual Savings with Phase Perfect® versus Rotary:**

Converter Horsepower Needed	<b>40 HP</b>	80 HP
Max Load Amperage	<b>120 A</b>	120 A
Standby Power Consumption	<b>190 W</b>	5800 W
Idle Power Cost	<b>\$31.62</b>	\$965.12

**Max Load Amperage:**

**120 A**

Amperage rating of largest or combined load that will be connected to the Phase Perfect®

**Electricity Cost (Per kWh):**

**\$0.16**

The cost in cents per kilowatt/hour your utility charges you for electricity usage. You can estimate costs for your region by looking at the [Average Price Chart on eia.gov](#).

**Estimated Power On Time:**

**52**

Weeks per Year

**5**

Days per Week

Number of weeks per year and days per week you anticipate needing 3 Phase power available. For example: a business with typical operating hours might be 50 weeks per year and 5 days per week, while an elevator installation would require 52 weeks per year and 7 days per week.

**Estimated Standby Time:**

**4**

Hours per Day

The number of hours per day you anticipate not drawing a significant 3 Phase load. For example: a typical business might not draw a significant load right away in the morning, during breaks, or over the lunch hour, while an elevator might be idle 20 or more hours per day.



# POWER YOUR LOAD FOR LESS



# WOOD WORKING

**\$933.50**

PROJECTED ANNUAL SAVINGS

## Recommended Products

**DXL VFD**  
**PHASE PERFECT®**

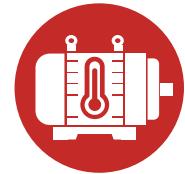


## YOUR DREAM SHOP SHOULDN'T BE LIMITED

Woodworking is on the uptick, and shops are being set up in rural areas, garages, barns, and commercial spaces where three-phase power isn't readily available—or it's far too expensive to bring in. Whether you're operating cabinet saws, dust collectors, CNC routers, or edge banders, your power source shouldn't limit your shop's layout or equipment choices.

### The Challenge: Limitation of Conventional Conversion Methods

While rotary and static converters are commonly used alternatives to utility three-phase power, they introduce problems for woodworking shops due to poor voltage balance and limited capacity:



**Motor Overheating & Failure**



**Startup Struggles**



**Inconsistent Performance**



**Unplanned Downtime**



**Possible Damaged Electronics**

Modern woodworking equipment—especially those with advanced controls or safety features—requires tightly balanced, clean three-phase power. Conventional phase converters just can't keep up, leading to maintenance headaches and productivity losses.

### The Solution: Phase Technologies Phase Converter or VFD

The **Phase Perfect® digital phase converter** is a solid-state solution engineered specifically to meet the demands of power-sensitive woodworking shops. Just connect to single-phase power and get utility-grade three-phase out.

*Key benefits of Phase Perfect over traditional methods:*

- ▶ **Low standby power draw:** Save on operating costs
- ▶ **Utility-grade three-phase output:** Protects sensitive electronics and ensures smooth operation
- ▶ **Run multiple machines at once:** Not limited to one load at a time
- ▶ **No moving parts:** Reliable, zero-maintenance design

Phase Technologies also offers woodworking professionals precise control over their machinery with American made **variable frequency drives (VFDs)**.

*Key benefits of Phase Technologies VFD:*

- ▶ **Smooth Motor Starts:** Reduce mechanical stress and extend equipment life
- ▶ **Speed Control for Precision Work:** Dial in exact motor speeds for different materials and cuts
- ▶ **Energy Efficiency:** Only use the power you need, no idler motor
- ▶ **Quiet, Reliable Operation:** No loud clunking, humming or voltage spikes

### Why Woodworking Shops Choose Phase Technologies

#### 1. Clean, Balanced Three-Phase Power

Delivers the voltage stability woodworking tools and CNC systems require for accurate, repeatable results

#### 2. Power for Tough Loads

Starts and runs high-draw equipment like dust collectors, wide belt sanders, and large table saws without tripping or lag

#### 3. Simple Installation

Install indoors or out, no complex setup or programming

#### 4. Minimal Maintenance

No motors or belt, just reliable power, day in and day out

### Technical Details: Designed for Flexibility

#### Transformer-Friendly:

Need 208 V, 380 V, or another voltage for certain machines? Use a buck/boost transformer to adjust voltage as needed, or pair with a delta-wye transformer to support systems requiring a neutral.

#### Built for Longevity:

With two decades of refinement, Phase Perfect is proven in demanding environments. No moving parts means reduced failure risk, minimal maintenance, and years of dependable use.

#### Perfect For:

- ▶ Woodshops in rural or residential areas
- ▶ Shops without access to utility three-phase
- ▶ Garages, pole buildings, and home-based setups
- ▶ Expanding operations with multiple machines