



Best rotary phase converter

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Rotary phase converters use a generator motor to convert single-phase power to three-phase, which your equipment needs to start up and run. A rotary converter supplies continuous three-phase power to the machines connected to it for safe, reliable, and balanced operation.

American Rotary Digital Rotary. I have installed lots of Rotary phase converters to run CNC equipment and here is what I have learned. 1. Retrofits usually have single phase controls so wire them to the single phase line. Then the voltage balance does not matter so much on a motor spindle unless it is VFD controlled.

American Rotary engineers the entire phase converter system to provide optimum performance. Our soft start generator and MicroSmart TM controller combine to make the most powerful and precise rotary phase converter on the market.

Static and rotary phase converters both turn standard single-phase electricity into three-phase power for heavy-duty equipment. The difference is that a static phase converter will start a three-phase load, but run it under lower power, while a rotary phase converter creates continuous, well-balanced three-phase power.

Smart-Phase(TM) is a digital rotary phase converter that is best suited for voltage-sensitive machines and/or multiple loads running simultaneously. It has the newest advancement in phase converter technology with 8-stage automatic voltage regulation (AVR).

Why would you need to convert single-phase to three-phase power? Single-phase power is the common residential and light-commercial variety supplied by utilities, used in places with smaller electricity loads requiring less power. Three-phase utility service is used in large industries, factories, and in manufacturing units where a large amount of power is required.

But here's the problem. All kinds of equipment require three-phase power: machines for woodworking, metalworking, CNC machining, foodservice, and farming, milling machines, and lathes just to name a few. A lot of this equipment exists in areas that don't already have three-phase utility service. And getting it installed is enormously expensive.

To determine which type you need for your application, you first need to understand the difference between the two. This article will help you understand that, as well as your main considerations so that you can make a smart decision.

So, what is a static phase converter? The straightforward static phase converter will start a three-phase load but run it only under single-phase power, limiting the load to about 2/3 of its rated capacity.



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Many other types of equipment--vacuum pumps and air compressors being two prime examples--cannot be run at all with a static phase converter. If you decide to go with a static phase converter, make sure that it's compatible with the power needs of your equipment. Feel free to contact American Rotary for help.

When a static phase converter motor disconnects after starting up your equipment, you're left with only two "legs" of power distribution. This is the reason the load must be limited to 2/3rds of its rated capacity.

Potential of control refers to what you can power with a phase converter. In the case of a static phase converter, due to the inherent limitations we've already cited, only one piece of equipment can be managed at a time.

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