

While the Indexer kit is designed to be easy to setup and use you may still have some questions.

### 1. Can I use a different input voltage?

Yes, but... Motor speed and total power are dependent on input voltage. Reducing the voltage will reduce maximum speed and power. For example, a system rated for 230 VAC operation running on 115 VAC will have a maximum motor speed which is ½ of the rated 230 VAC speed. Because power is related to speed the total output power will also be reduced.

However, torque (force applied by motor) is not reduced by a lower voltage. Even at the lower voltage the motor will put out just as much torque. (Power is torque times speed which is why the power is reduced but torque is not.)

If your application does not require the full rated speed and power then yes you can run at a lower input voltage. If you need more power but not the speed select a higher rated system so that you have sufficient power at the lower voltage. Be sure to set the drive voltage value in your project to correctly match your actual voltage. If you need assistance call us at 585-385-3520.

Under no circumstances can you use a higher voltage than the rating. The drive and possibly the motor will be destroyed.

### 2. Do I have to use 3 phase power?

The 200v series of Indexer kits do not require 3 phase power. Single phase will work just fine. In the larger systems 3-phase power will reduce the current in each phase which is a benefit to the delivery system.

3-phase power is required on all 460V systems.

### 3. What if I want longer motor cables?

The kit part numbers have the motor cable length set by the last number. Standard lengths go to 70 feet. Change the number when ordering.

If you need longer cables, that is usually not a problem. It is best to briefly discuss the application to insure there are no problems. Lengths to 150 feet are generally not a problem.

### 4. Can I make my own motor cables?

It is not recommended. Modern servo systems use high frequency switching to achieve many of the benefits. With that switching come switching voltage and current spikes and electrical noise. Our cables are carefully chosen and designed to work for decades without breakdown and to shield your other equipment from the generated noise.

### 5. Can I use the included E-Stop button on my machine?

Yes, the E-Stop and reset button are industrial grade and intended to be used on your production equipment. They can be easily removed from the convenient switch box provided with the kit.

**6. Can I use the included enable switch on my machine?**

While you can use the switch it may not be the best choice. The enable switch (and motion pushbuttons) are not as robust. They provide a simple interface to get you going. However, there are so many options and preferences on a machine that we could not find one solution.

**7. Do I really need a contactor?**

The contactor is there as a safety device. In the suggested wiring when the E-Stop is open the contactor is opened. At that point power to move the motor is removed from the servo drive. This makes it safe for personnel to be near the motor, without power it won't move.

Will the system operate without the contactor? Yes. Will the system be as safe? No.

**8. Can I get different power levels? Higher? Lower?**

Yes, but not as a standard kit. The XD Indexer is available in 14 sizes. The 200v series covers 1 to 19 HP and the 400v series covers 2 to 32 HP. Motors are also available. Details can be found in ORMEC's Indexer Datasheet.

When changing Indexer drive sizes the other pieces in the system will need to be reviewed. When increasing a larger circuit breaker, line filter and contactor may be required.

**9. Can I connect this to my PLC?**

Yes. The XD Indexer comes standard with a Modbus TCP interface. From that interface nearly all settings, parameters and programming can be changed. Motions can be initiated and status can be monitored in real time. The XD Indexer supports an Ethernet/IP interface for connection to devices requiring such.

ORMEC has a standard PLC enhanced for motion support, model SMLC-15. The SMLC programs in all 5 standard IEC 61131-3 languages. It is optimized for motion and an XD Indexer library is available to simplify interfacing to an XD Indexer.

**10. Can I buy a PLC from ORMEC?**

Yes, ORMEC has a standard PLC enhanced for motion support, model SMLC-15. The SMLC programs in all 5 standard IEC 61131-3 languages. It is optimized for motion and an XD Indexer library is available to simplify interfacing to an XD Indexer.

**11. What software do I need?**

When you connect the motor to your machine the motions will need to be changed to implement your application. The motions can be changed using either the XD Indexer configuration software, MotionSet, or using the MMI program supplied with the MMI kit.

MotionSet software is available free of charge at <http://www.ormec.com/Products/Drives/XDSeriesIndexerServoDrive.aspx> then following the link on the right under Software.

**12. Can I get different size MMI?**

Yes, many sizes are available. See the Products | MMI page on the ORMEC website for additional selections.

**13. Can I get a different switch box?**

No standard switch box options are available. ORMEC can provide a custom operator interface console. Contact ORMEC Sales at 585-385-3520.

**14. Can you program my application?**

Yes, ORMEC has experienced application engineers available to program part or all of your system.

Technical assistance and product support is available at 585-385-3520 or [support@ormec.com](mailto:support@ormec.com).

Complete information about our support can be found at

<http://www.ormec.com/Support/TechnicalSupport.aspx>

**15. I lost my program**

The original XD-Indexer program which shipped with the kit is available on the ORMEC website, [www.ormec.com](http://www.ormec.com) and can also be found on the documentation CD included with your order. The program can be reloaded using MotionSet configuration software.

**16. Can I get a UL certified panel?**

Yes. ORMEC is a UL 508A certified panel shop. The panel in the kit is wired to meet UL 508A requirements. For an additional charge, which covers UL fees, the panel can be provided with a certification.