

Drop-in Servo Drive Replacement

The R-Series (Replacement) Drive is a cost-effective retrofit option for existing servo drives. The R-Drive extends the life cycle of your current production equipment and is based on the latest hardware and software technology.

R-Drives interface to your existing controllers and motors. ORMEC designs and manufactures adapter cables specifically to connect with your current motors and equipment.

Benefits of the R-Drive :

- Quick and easy installation
- Existing motors are kept in place
- Adapter cables easily connect to the existing motor and controller interface cables
- Field retrofit; no need to change application code
- Improved energy efficiency
- Comprehensive diagnostics
- Extends life of current equipment and applications

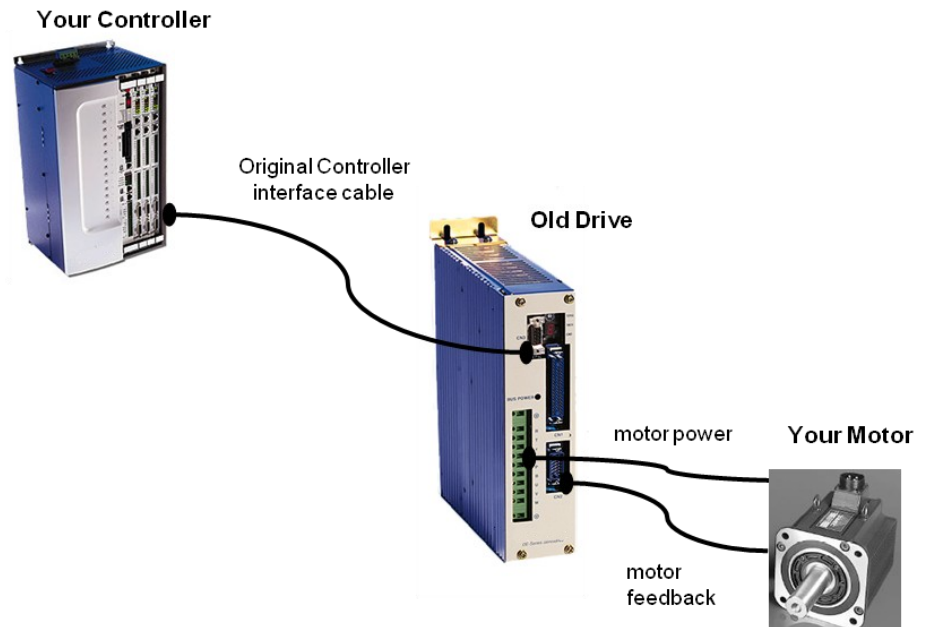
Quick field retrofits

In minutes, an R-Drive can be installed in the field by using an adapter kit. The kit includes a mounting plate and adapter cables for the controller interface, motor feedback and power cables as required.

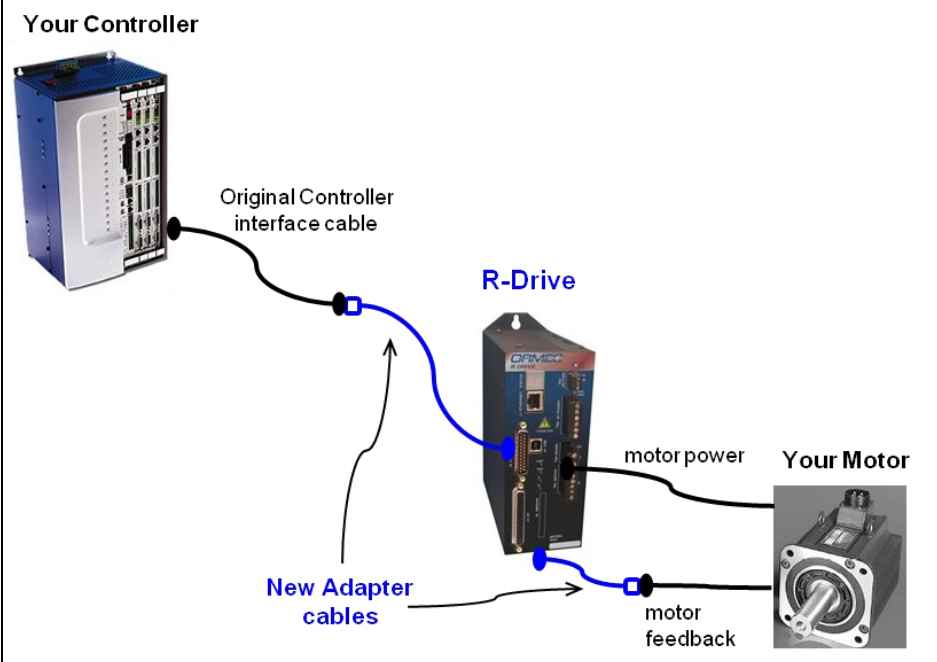
R-Drive drop-in retrofits preserve your automation investment by using existing motors, cables and wiring.

Simply unplug the cables from the old drive and remove it. Install the R-Drive with the mounting plate from the kit. The plate bolts to the panel using the existing hole pattern. Connect the power and use the adapter cables to connect the interface and feedback cables and you are ready for production.

Existing Servo Drive Configuration



Drop-in R-Drive Retrofit



The R-Drive efficiently replaces existing Servo Drives and interfaces to current controller applications.

Features

- Diagnostic LEDs for quadrature feedback and torque command
- Real-time software diagnostics including a digital scope are available with ORMEC's MotionSet configuration and debug tools
- Real-time monitoring of drive values and event logging
- Built-in 24 VDC power supply for I/O devices
- Large library of additional motor interfaces

Getting started

- Provide ORMEC with current servo drive, motor and controller information.
- ORMEC designs R-Drive replacement kit.
- Initial units provided for test and evaluation with your field application.
- Final units available for field retrofits.

Contact us

Protect your existing investment in motors and cabling with a proactive, cost-effective retrofit that includes the R-Drive drop-in replacement strategy. For more information please contact the motion control experts at ORMEC by phone (585) 385-3520 or email sales@ormec.com.

Compatibility

- **Motors supported**
 - brushed DC
 - 3 phase brushless servo
 - voice coil
- **Feedback types**
 - quadrature
 - Yaskawa Sigma I, Sigma II
 - Tomagawa
 - EnDat
 - resolver
 - sin/cos
 - and more...

Environmental

- Ambient operating 0 to 50°C
- Ambient storage -20 to 70°C
- Humidity operating / storage is 90% RH or less, non-condensing

Update rates

- Position loop update rate: 10 kHz
- Velocity loop update rate: 10 kHz
- Torque loop update rate: 10 kHz

Drive Sizes Available

100 or 200 volt		
HP	amps	KW
1.0	3	0.7
1.6	5	1.2
3.2	10	2.4
4.8	15	3.6
8.0	25	6.0
11.0	35	8.4
19.0	60	14.0

400 volt drives and motors		
HP	amps	KW
1.9	3	1.4
3.2	5	2.4
6.5	10	4.8
11.0	17	8.1
16.0	25	12.0
22.0	35	17.0
32.0	50	24.0

All specifications subject to change.