

STR Stepper Drives

Advanced Microstep Drives for Step & Direction Applications



Product Features

- **Prices starting at \$75**
- *Step & direction or pulse/pulse control*
- *Advanced microstepping control*
- *Anti-resonance increases torque*
- *Microstep emulation provides smooth motion*
- *Idle current reduction reduces motor heating*
- *Simple setup with on-board switches*
- *Matched step motors available*
- *Six models to choose from*
- *(For integrated motors with similar features see the [STM-R Integrated Steppers](#))*



Series Details:

STR series stepper drives are compact, powerful, digital step & direction drives available for operation with either AC or DC supply voltages. Drives for DC power are ideal for smaller motors (NEMA sizes 11, 14, 17, 23), when physical space is limited around the drive, and when multiple drives are used on a common power supply. AC powered drives are best for larger motors (NEMA sizes 23, 24 and 34) and when maximum power is required.

DC powered STR drives:

- STR2 ... up to 2.2 A/phase ... DC supplies of 12 to 48 VDC
- STR3 ... up to 3.0 A/phase ... DC supplies of 12 to 48 VDC
- STR4 ... up to 4.5 A/phase ... DC supplies of 24 to 48 VDC
- STR8 ... up to 8.0 A/phase ... DC supplies of 24 to 75 VDC

AC powered STRAC drives:

- STRAC2 ... up to 2.4 A/phase ... AC supplies of 90 to 240 VAC
- STRAC8 ... up to 8.0 A/phase ... AC supplies of 90 to 240 VAC

Advanced performance for basic applications

All STR drives are great for OEM applications requiring basic step & direction control of a 2-phase step motor. STR drives feature advanced microstepping performance and sophisticated current control with anti-resonance. Anti-resonance electronically damps motor and system resonances, which improves motor smoothness and torque over a wide speed range.

Every STR step motor drive operates in step & direction or pulse/pulse control mode. Selecting between these two modes is done by moving a jumper located under the cover of the drive. Each STR drive can microstep up to 20,000 steps/rev with a 1.8° step motor (1/100 step), and can even microstep the step motor when the command pulses are low resolution. This feature is called Microstep Emulation. All drive setup is done via dip or rotary switches on the side of the drive, including motor selection, running current, idle current, and step resolution. No software is required.

A large offering of compatible step motors

STR stepper drives are available with a large family of compatible 2-phase step motors, selected to optimize performance of both the drive and motor. Compatible step motors are listed on each drive's product page in the Recommended Products section. Speed-torque curves are also listed on drive pages, and are an excellent starting point for determining the best drive + motor + power supply combination for your application

Products in the Series *STR Stepper Drives*

Model Number	Supply Voltage	Control Modes	Output Current, Continuous	Communication Ports	Encoder Feedback	1pc.
STR2	12-48 VDC	Step & Direction	0.3-2.2 A/Phase	NA	No	\$98.00
STR3	12-48 VDC	Step & Direction	0.3-3.0 A/Phase	NA	No	\$90.00
STR4	24-48 VDC	Step & Direction	1.12-4.5 A/Phase	NA	No	\$107.00
STR8	24-75 VDC	Step & Direction	2.35-8.0 A/Phase	NA	No	\$119.00
STRAC2	90-240 VAC	Step & Direction	0.5-2.5 A/Phase	NA	No	\$390.00
STRAC8	90-240 VAC	Step & Direction	0.5-8.0 A/Phase	NA	No	\$462.00