

## STR8

DC Advanced Microstep Drive

1pc. - 217.00  
50pc. - 162.75



### Product Features

- Current range 2.35A to 8.0A peak of sine
- Electronic damping (anti-resonance)
- Microstepping & microstep emulation
- Built-in self test move profile
- Step & direction inputs
- CW Pulse/CCW pulse operation
- Idle current reduction
- Selectable digital input filter



### Description

The STR8 stepper drive is a compact, powerful, digital step & direction drive, great for OEM applications requiring basic step & direction control of a 2-phase step motor. The STR8 outputs up to 8 A/phase to the step motor, and is compatible with a variety of 2-phase step motors that have been selected to optimize performance of both the drive and motor.

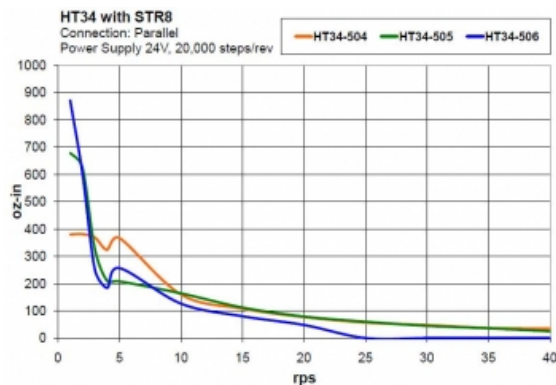
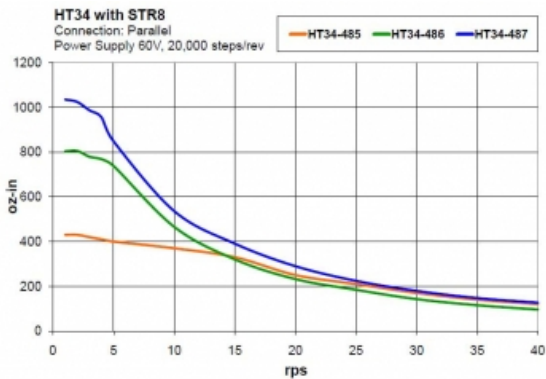
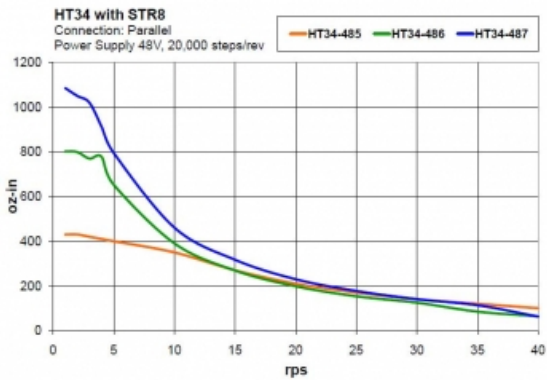
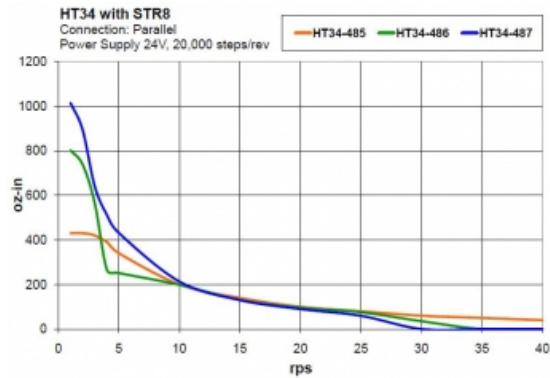
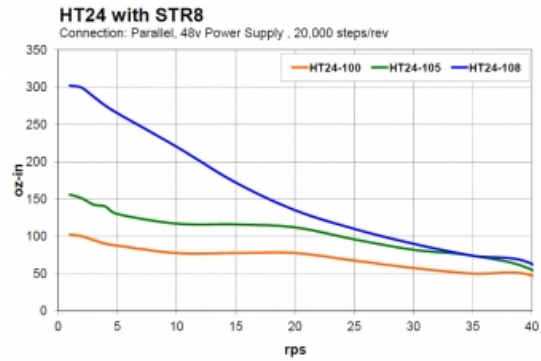
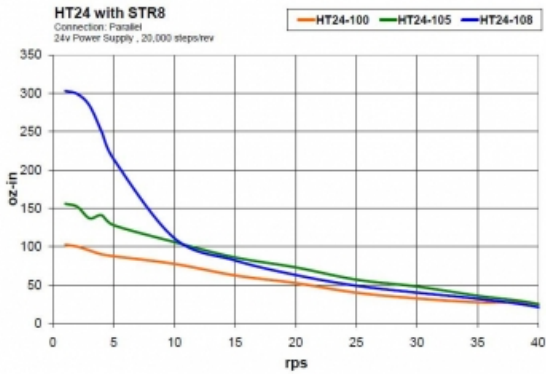
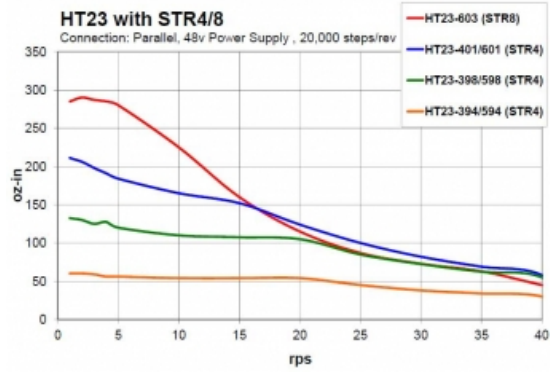
The STR8 drive features advanced microstepping performance and sophisticated current control with anti-resonance. Anti-resonance electronically damps motor and system resonances, which improves motor smoothness and torque over a wide speed range.

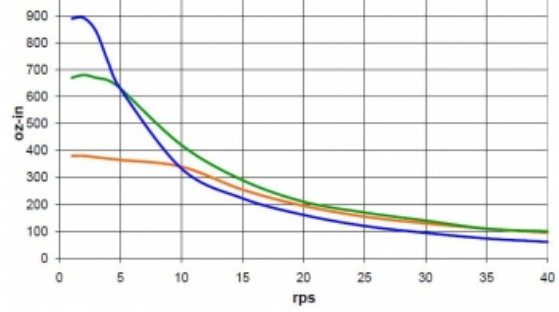
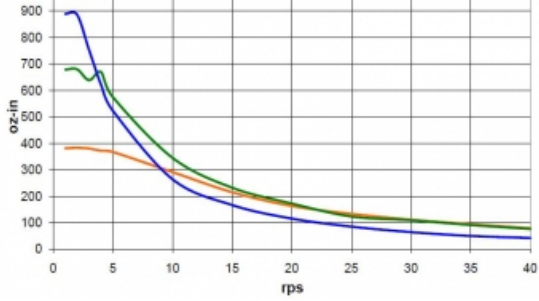
Each STR8 step motor drive operates in either Step & Direction or Pulse/Pulse control mode. Selecting between these two modes is done by moving a jumper located under the cover of the drive. Each STR8 drive can microstep up to 20,000 steps/rev with a 1.8° step motor (1/100 step), and can even microstep the step motor when the command pulses are low resolution. This feature is called Microstep Emulation. All drive setup is done via dip switches and a rotary switch on the side of the drive, including motor selection, running current, idle current, and step resolution.

## Specifications

<b>Model Number:</b>	STR8
<b>Part Number:</b>	5000-158
<b>Supply Voltage:</b>	24-75 VDC
<b>Supply Voltage Type:</b>	DC
<b>Control Modes:</b>	Step & Direction
<b>Output Current:</b>	2.35-8.0 A/phase
<b>Encoder Feedback:</b>	No
<b>Step Resolution:</b>	Full Half Microstepping Microstep Emulation
<b>Idle Current Reduction:</b>	50% or 90%
<b>Setup Method:</b>	Switch / potentiometer
<b>Digital Inputs:</b>	3
<b>Digital Outputs:</b>	1
<b>Analog Inputs:</b>	0
<b>Dimensions:</b>	4.65 x 2.97 x 1.30 inches
<b>Weight:</b>	10.8 oz
<b>Operating Temperature Range:</b>	0 to 70 °C
<b>Ambient Temperature Range:</b>	0 to 50 °C
<b>Ambient Humidity:</b>	90% max, non-condensing
<b>Status LEDs:</b>	1 red, 1 green
<b>Circuit Protection:</b>	Short circuit Over-voltage Under-voltage

# Torque Curves





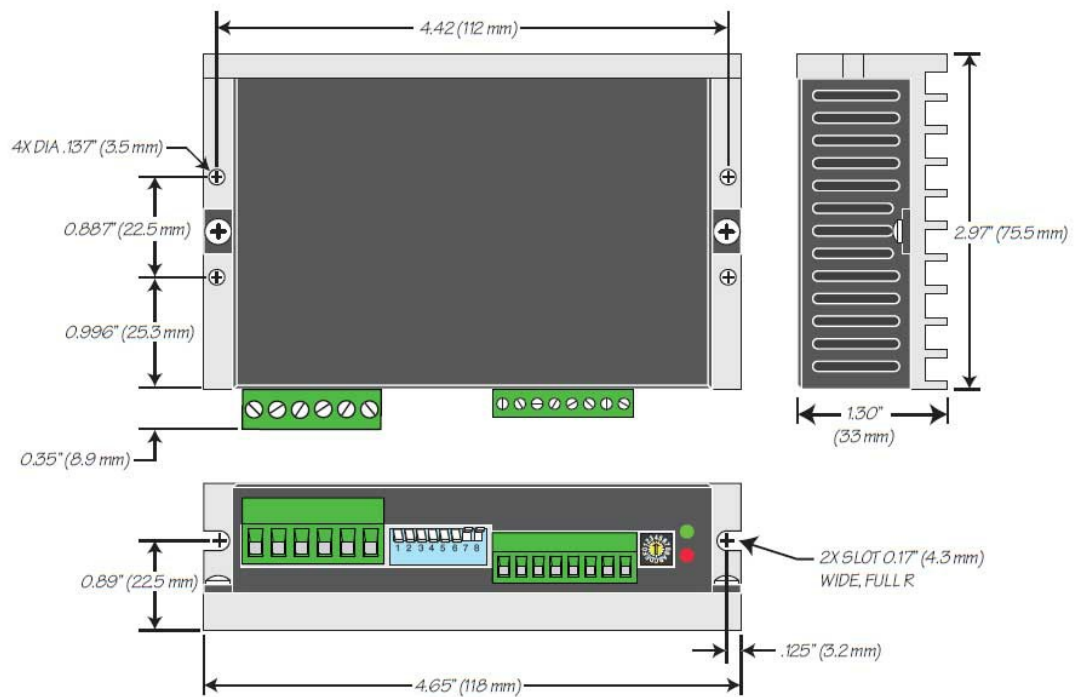
## Downloads

<b>Manuals:</b>	<a href="#">STR_Quick_Setup_Guide.pdf</a> <a href="#">STR4-8_HardwareManual_920-0030J.pdf</a>
<b>Datasheet:</b>	<a href="http://s3.amazonaws.com/applied-motion-pdf/STR8.pdf">http://s3.amazonaws.com/applied-motion-pdf/STR8.pdf</a>
<b>Family Datasheet:</b>	<a href="#">STR_Datasheet_925-0002.pdf</a>
<b>2D Drawing:</b>	<a href="#">STR4_8_drawing.pdf</a> <a href="#">ST4_8_simple_3D.pdf</a>
<b>3D Drawing:</b>	<a href="#">STR4_8.igs</a>
<b>Speed-Torque Curves:</b>	<a href="#">STR4-8 Hardware Manual 920-0030H_TorqueCurves.pdf</a>
<b>Agency Approvals:</b>	<a href="#">STR_CE_DOC.PDF</a>

## Pricing

<b>STR8</b> Part No. 5000-158	
<b>1pc.</b>	\$217.00
<b>25pc.</b>	\$186.62
<b>50pc.</b>	\$162.75
<b>100pc.</b>	<a href="#">Request a Quote</a> for 100+ piece pricing.

## 2D Drawings



## Products in the Series *STR Stepper Drives*

Number	Supply Voltage	Control Modes	Output Current	Communication Ports	Encoder Feedback	1pc./50pc.
<a href="#">STR2</a>	12-48 VDC	Step & Direction	0.3-2.2 A/Phase	NA	No	\$97.00 / \$72.75
<a href="#">STR4</a>	24-48 VDC	Step & Direction	1.12-4.5 A/Phase	NA	No	\$190.00 / \$142.50
<a href="#">STR8</a>	24-75 VDC	Step & Direction	2.35-8.0 A/Phase	NA	No	\$217.00 / \$162.75