KOCO DINGS™
MOTION
...Intelligence in motion

IS NOW

DINGS' MOTION USA™
....Precision Motion Specialists

Tomorrow's Technology
for Today's Application™

ServoTrack™

KOCO DINGS™
MOTION
...Intelligence in motion

KOCO MOTION US LLC/DINGS'
Phone 408-300-9690
www.kocomotionus.com

Add torque control capability to your stepping system!

Design smart with ServoTrack™

ST484 STAND ALONE DRIVER AND PROGRAMMABLE MOTION CONTROLLER

Features

· HMI Interface

· USB Programming Interface

· Multifunction diagnostic LED

· SnapTrack™ Programming Software

· Secondary Encoder input for electronic gearing
  OR camming

· Secure screw terminal connectors

· 35 mm Din Rail or Panel mountable

· Distributed Motion for Multi-Axis Control
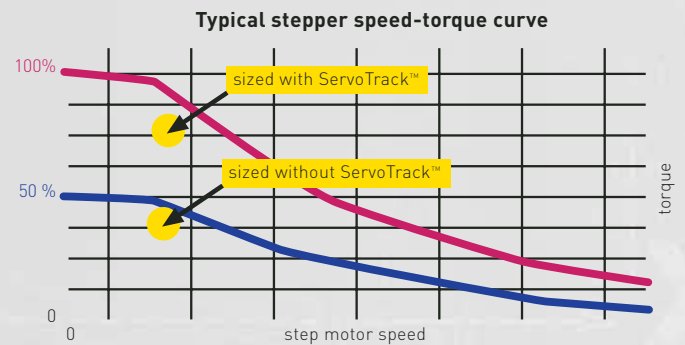
· Control motors from size Nema 8 to Nema 34

Specifications

Input Voltage:	12-48 VDC
Variable Control Modes:	Rotary Torque Control Linear Force Control
Current:	4 Amps/Phase RMS
Control:	Dynamic Closed Loop or Open Loop
Programmable I/O's:	3 Digital Inputs (5V-24V) 3 Digital Outputs (5V-24V) 1 16-Bit Analog Input
Microstep Resolution:	Up to 256 μsteps/step
Communication:	Serial RS485

Key Benefits:

Never lose position

· **Solve applications previously considered too demanding for stepper Systems.**

· **Reduce system cost with an enhanced stepper based system.**

· **Do you need torque control in your stepper system?**

· **Does your system stall due to transient loads or friction?**

· **Eliminate unintentional stalling or loss of synchronization.**

· **Increase throughput efficiency**

· **Reduce motor heating and energy costs with variable current control**

· **Optimize the torque utilization of your motor**

· **Greater compliance with inertial mismatch**

Typical stepper speed-torque curve

sized with ServoTrack™

sized without ServoTrack™

100%

50 %

0

torque

0   step motor speed

ServoTrack™ control for real-time response. It continually monitors the relationship between the rotor and stator at nano-second intervals, and will not allow that relationship to exceed the point where motor synchronization is lost.

SNAPTRACK™ PROGRAMMING

· Simple and powerful programming

· "Block" programming
  Eliminates traditional "coding" and syntax learning

· Creates buttons with labels with underlying programs
  that can be executed with a simple click
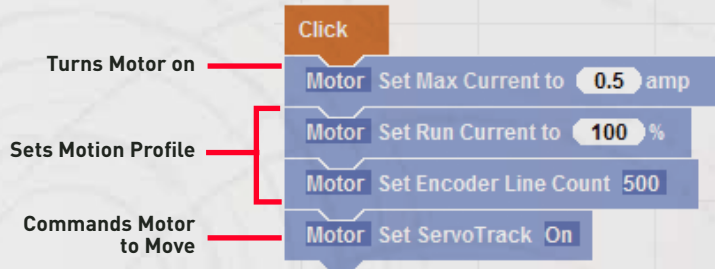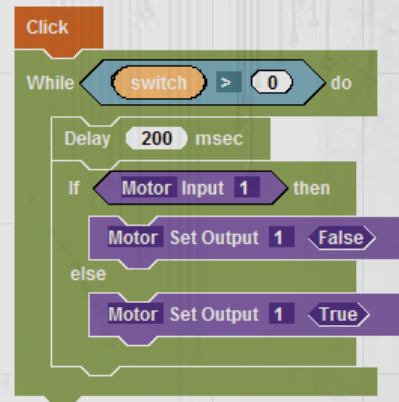
· User-friendly software

TYPICAL PROGRAMMING BLOCKS

Turns Motor on

Sets Motion Profile

Commands Motor
to Move

Figure 1. Push Button Block Program, Click and Set Motor

COMPUTER PROGRAMMING INTERFACE

Touchscreen programming
(optional)

1.375 in

3.50 in

3.50 in

ServoTrack™ Vector Systems

VECTOR23
INTEGRATED MOTION SYSTEMS

Features

- HMI Interface
- USB Programming Interface
- Multifunction diagnostic LED
- SnapTrack™ Programming Software
- Secondary Encoder input for electronic gearing OR camming
- Distributed Motion for Multi-Axis Control (Master and Slave)

Specifications

Input Voltage:	12-48 VDC
Variable Control Modes:	Rotary Torque Control Linear Force Control
Current:	4 Amps/Phase RMS
Control:	Dynamic Closed Loop or Open Loop
Programmable I/O's:	3 Digital Inputs (5V-24V) 3 Digital Outputs (5V-24V) 1 16-Bit Analog Input
Microstep Resolution:	Up to 256 µsteps/step
Communication:	Serial RS485

For more detailed information...

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