

Aries Controller System Solutions Guide

Parker核心代理商

北京润诚时代科技有限公司



地址:北京市朝阳区北苑路68号星河写字楼四层412室

邮编:100012

电话:010-84450370 传真:010-84450371

网址:www.fastarmotion.com www.runcheng.net



ENGINEERING YOUR SUCCESS.

System Solutions Guide

Introduction

Aries Controller System Solutions Guide is provided to aid the user in selecting and configuring Parker products used with the Aries Controller.

This document is intended as a supplement to existing Parker literature and user guides. The Aries Controller System Solutions Guide is essentially an extension of catalog information and a summary of installation and programming manuals. Information contained herein does not supersede official manuals unless specifically noted.

- Overview
- Features
- FAQ's
- Xpress HMI
 - **Overview**
 - Part Numbers
 - Configuring Aries Driver

Rotary Motors

- Overview
- Cable Selection
- **Encoder Selection**
- Motor Wiring
- > Speed Torque Curves

Linear Motors

- Overview
- > ACR-View Set-up
- > Trilogy Coil Wiring
- Trilogy Encoder/Hall Wiring
- Limit/Home Wiring

Parker Mechanics

- > Overview
- XR Limit/Home Wiring (NPN)
- XR Limit/Home Wiring (PNP)
- > HD Limit/Home Wiring
- > XE Limit/Home Wiring
- > ET Limit/Home Wiring (NPN)



REV 02092009-1

Overview

Aries Controller Features

- 7 onboard inputs (4 standard, 3 high speed), 4 outputs
- · Advanced Multitasking of up to 16 simultaneous programs
- Integrated 2 port Ethernet hub
- ACRView Software Development Kit
- · Rotary or linear servo motor control
- 3, 4.5 and 6.3 A RMS continuous current
- 120/240 VAC power input
- Multiple feedback options

Smart encoder, quadrature encoder, Heidenhain EnDat absolute encoder

- Auto-tuning
- CE (EMC & LVD), UL508C Recognized



Aries Controller Part Numbers	Description
AR-04CE	400W, 3 amp RMS servo controller
AR-08CE	750W, 4.5 amp RMS servo controller
AR-13CE	1300W, 6.3amp RMS servo controller



Features

Aries Controller Features

- Jog and Contoured Profiles
- Scaling for distance, velocity, acceleration
- S-Curve profiling
- Hardware and Software Limits
- · Multi-Tasking
- Segmented Electronic Cams
- Electronic Gearing
- Global and local variables and arrays
- Floating point math functionality
- Logic operators
- Hardware & Software capture registers
- Registration moves
- Time-Based Moves
- Data Sampling
- String Handling
- Torque/Force Control
- Programmable Limits Switch Functions
- Non-Volatile Flash Memory
- Conditional Statements
- Ballscrew and Backlash Compensation





FAQ's

Frequently Asked Questions

- **Programming Language:** The Aries Controller is programmed in the AcroBASIC language used for the ACR family of controllers. Commands used for drive/motor set-up are based on the Aries command language.
- **Development Environment:** The free of charge, ACR-View Software Development Kit is used to set-up, program and troubleshoot the Aries Controller. The Aries Support Tool (AST), used to configure Aries drive only products, is not required or supported. AST functionality is embedded in ACR-View.
- PC Applications: Included with ACR-View is a Windows compatible library (API) called the ComACRserver that can be integrated into any COM enabled programming language such as VB6, VB.NET, C++, and C#. The rich set of functions included with the ComACRserver allows a user to develop custom user interfaces with ease.
- LabView: The ComACRserver allows LabView users to quickly create custom VIs for communicating to, commanding and querying the Aries Controller. Example projects are available for download.
- Enable Input: The Aries does not have a dedicated hardware enable circuit. The mains input power could be used for stopping purposes, however, motion may occur for several seconds while capacitors discharge. A user can program a task to monitor an input and immediately kill motion when the input is opened. For true safety stop functionality, a custom version of the Aries is available which dedicates Input 0 as a hardware enable circuit. Request a custom product quotation for this version (will be available as a standard ordering option).
- Feedback Types: Aries Controller supports Smart encoders, quadrature rotary and linear encoders and Heidenhain EnDat absolute encoders. No special order code is required, all are supported on the same hardware platform. Resolvers are not supported at this time and no development timeline has been established.
- **HMI Drivers:** Drivers are available and currently shipping with Parker InteractX (2.51) and Interact Xpress(1.8) platforms.
- **IP Addressing:** The IP address for the controller can be freely assigned using hardware switches of the front of the controller. See notes for more information
- **Auxiliary Encoder:** The Aries controller has a secondary encoder input for following/cam applications. See <u>notes</u> for more information



FAQ's

Frequently Asked Questions-Coming Attractions

- **Controller Peer-to-Peer:** Functionality is being developed that will allow Aries Controllers to pass commands and variables to other Aries controllers. Expected availability is spring 2009.
- **Expansion I/O:** Parker is currently developing EtherNet/IP scanner functionality for the Aries that will allow use of Ethernet expansion I/O modules. Expected availability is mid-2009.
- EtherNet/IP: Parker is currently developing EtherNet/IP scanner and adapter functionality for the Aries. Expected availability is mid-2009.
- **Higher Power Levels:** 2kW and 3kW (-20, -30) versions of the Aries Controller are in development. Expected availability is fall 2009.



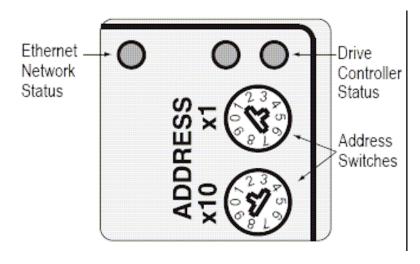
FAQ's

The IP address Aries CE Controllers can be assigned via hardware, programmed by the user or assigned dynamically from a DHCP server.

Aries CE Controllers ship with IP address default of 192.168.100.1

	Switch Setting	Unit IP Address
Hardware	0 (x1=0, x10=0)	10.10.10.10
Hardware	1 (x1=1, x10=0)	192.168.100.1
Hardware	2-98 (x1=2, x10=0) Example: 14 (x1=4, x10=1)	192.168.100.(x10)(X1)
Software	99 (x1=9, x10=9)	User defined via IP command

******Valid for OS version 1.10 and higher.

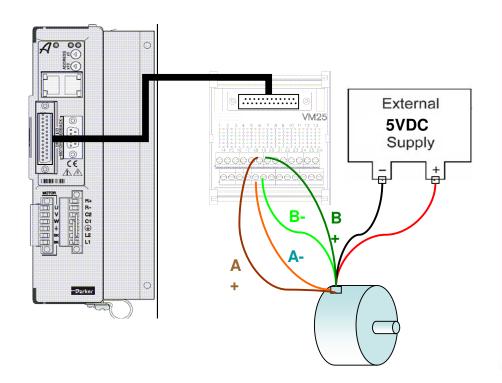




FAQ's

Auxiliary Encoder Input

- 2 High speed inputs can be wired as an encoder input
 - A+/A- are wired to high speed input 5
 - B+/B- are wired to high speed input 6
- Encoder power must be supplied externally
 - 5V source power for encoders will be added for future versions of the drive
- Differential encoder signals
- Controller always reads as both inputs and encoder
- No software selection/command required
- Encoder input is mapped to controller parameter ENC1 (P6160)
- Encoder position value can be utilized for gearing, cam etc
- Dual loop feedback not supported



I/O Connector Signal Pin Input 0+ 14 Input 0-2 Input 1+ Input 1-15 3 Input 2+ Input 2-16 High-Speed Input 4+ 4 High-Speed Input 4-17 High-Speed Input 5+ (or Aux Enc A+) High-Speed Input 5-18 (or Aux Enc A-) High-Speed Input 6+ (or Aux Enc B+) High-Speed Input 6- 19 (or Aux Enc B-) Input 3+ Input 3-20 Reserved (future 5V) 8 Reserved (future GND) 21 Output 32+ 9 Output 32-22 10 Output 33+ 23 Output 33-Output 34+ 11 Output 34-24 Output 35+ 12 Output 35-25 Not used 13



Xpress Features

Interact Xpress software is pre-installed and bundled with Parker's new XPR PowerStation hardware, which is designed to optimize the performance, storage and connectivity features of Xpress HMI.



XPR Powerstation Features

- 256MB of DRAM
- 128MB Compact Flash (also available with 256 or 512)
- NEMA4/4X-rating
- embedded fanless CPU technology,
- 256MB DRAM
- 2 USB ports, 2 RS-232 and RS-232/422/485 ports
- 100BaseT Ethernet port
- CE/UL/CUL Approvals

Interact Xpress Features

- Sophisticated graphics look and feel with ease of development
- Integrated Web Publishing capability for distributed applications
- Applications can be served, created and edited online from any PC with Internet Explorer.
- Available offline, development software allows work on applications when a live Internet connection is not available.
- Advanced security for single or multi-user applications
- · Tools for historical alarm data
- Capacity for complex graphics and animations
- Standard Ethernet port for both networking and controller communications
- Unlimited tags
- Color depth to 262,144 colors



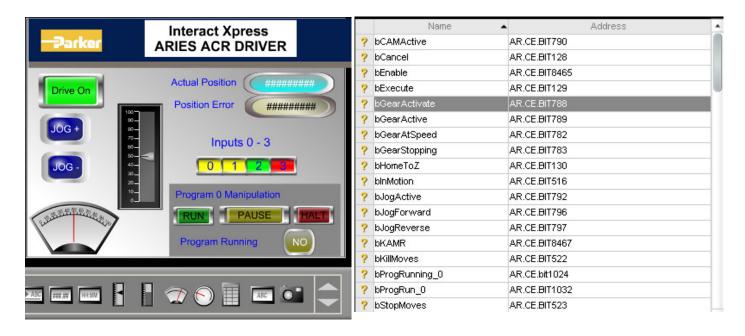
Xpress



Together, the Aries Controller, Xpress software and XPR PowerStations create a powerful, easy to use motion and HMI solution. The Aries Controller and XPR PowerStation communicate via 100Mb Ethernet using a the Xpress COMMserver for fast, efficient data and command transfer. The ACR Ethernet Driver included with Xpress enables almost unlimited access to information on the controller. Since most controller functions can be executed by simply asserting a binary variable, push button control can be created for most motion needs.

- Read and write global variables
- Read and write controller system parameters and flags
- Read and write strings
- Standard Ethernet Cable for direct connection or thru a switch

Getting Started with Xpress and Aries Controller





Xpress Part Numbers



XPR Part numbers	Description	
XPR06VT-2P3	6" TFT touchscreen Display	
XPR08VT-4P3	8" TFT touchscreen Display	
XPR10VT-4P3	10.4"/VGA/TFT Touchscreen Display	
XPR10ST-4P3	10. 4" SVGA/TFT Touchscreen Display	
P1X-PWRAC	AC Power Supply	
IXM-0150	Interact Xpress Manager 1.x Development Software	

Sample System Bill of Materials

Part numbers	Description
AR-04CE	400W, 3 amp RMS servo controller
XPR06VT-2P3	6" TFT touchscreen Display
P1X-PWRAC	AC Power Supply
IXM-0150	Interact Xpress Manager 1.x Development Software (one-time charge)
N	Ethernet Cross-over Cable

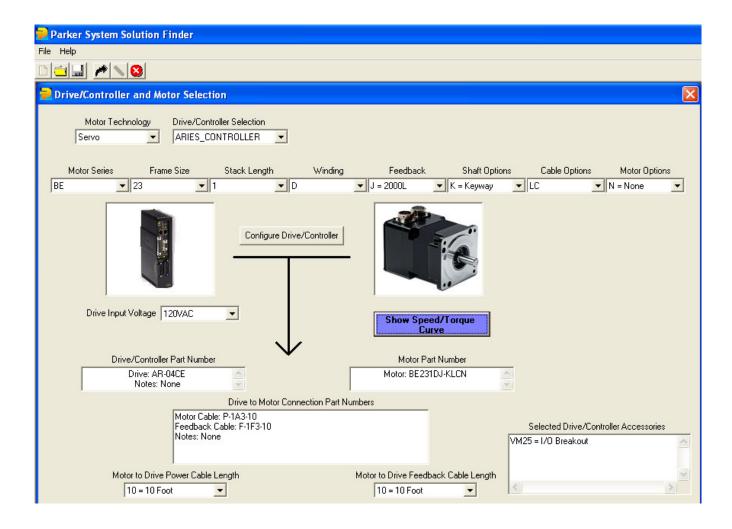


Aries Controller and Parker Motors

Parker System Solution Finder is a great resource for building compatible motor, cable and drive part number combinations. SSF generates a full bill of materials and will create a speed/torque curve for the selected system.

Download the most recent version of System Solution Finder from

www.parkermotion.com/scripts/support_download.asp#SIZINGCD



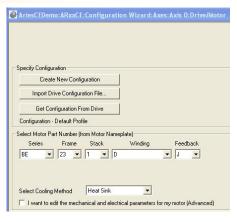


Aries Controller and Parker Motors

The Aries Controller is compatible with a wide range of Parker motors and feedback types. ACR-View contains a complete database of Parker motors allowing the user to easily create a download the correct motor set-up file to the controller.

Motors are offered with two types of connector options for use with the Aries Controller.

- LC Connecter Option- Space and cost saving
 - Motor is equipped with 8 inch leads for motor power and feedback, terminating into Molex/Tyco style connectors.
 - · Mating cables are offered in various lengths.
 - Feedback mating cables include a 15-pin D-Sub connector for direct connection to the controller feedback connector
 - · Motor Power mating cables include brake leads
 - P-Clip is included with the motor power cable to connect cable braided shield to earth ground for proper noise immunity
- PS Connecter Option Rugged, Industrial
 - Motor is provided with hardened, military style connectors for power and feedback connections,
 - Mating cables are offered in various lengths.
 - Feedback mating cables include a 15-pin D-Sub connector for direct connection to the controller feedback connector
 - · Motor Power mating cables include brake leads









Aries Controller and Parker Motors

Mating Cables for Aries Controller to LC and PS option Motors

Motor Connector Type	Motor Cable	Feedback Cable (all encoder types)
LC	P-1A3-XX (0-6A) Stock Lengths: 10 and 25ft Also Available: 5, 15, 20, 30, 35, 40, 45, 50	F-1F3-XX Stock Lengths: 10 and 25ft Also Available: 5, 15, 20, 30, 35, 40, 45, 50
PS	P-1A1-XX (0-6A) P-3B1-XX (>6 amps) Stock Lengths: 10, 25 and 50 ft Also Available: 5, 15, 20, 30, 35, 40, 45	F-1A1-XX Stock Lengths: 10, 25 and 50 ft Also Available: 5, 15, 20, 30, 35, 40, 45

Motor Connector and Encoder Options

Motor Series	Encoder Code	Connector Options	Description	Controller Resolution
BE	Q	LC, PS	2000 Line Smart Encoder	8000 ppr
	J	LC, PS	2000 Line Encoder	8000 ppr
	L	PS	5000 Line Encoder	20000 ppr
SM	Q	LC, PS	2000 Line <i>Smart</i> Encoder	8000 ppr
	E	LC, PS	1000 Line Encoder	4000 ppr
	L	PS	5000 Line Encoder	20000 ppr
MPP/MPJ	1E	PS	2000 Line <i>Smart</i> Encoder	8000 ppr
	3E	PS	2000 Line <i>Smart</i> Encoder	8000 ppr
	6D	PS	Smart Multi-turn Absolute, 131072	131072 ppr
	9D	PS	Smart Single-turn Absolute, 131072	131072 ppr



Aries Controller and Parker Motors

Sample System Bill of Materials

Part numbers	Description
AR-04CE	400W, 3 amp RMS servo controller
BE231DJ-NLCN	BE Series Motor, LC connector, 2000 line encoder
P-1A3-10	10ft Motor Power Cable, LC style
F-1F3-10	10ft Motor Feedback Cable, LC style

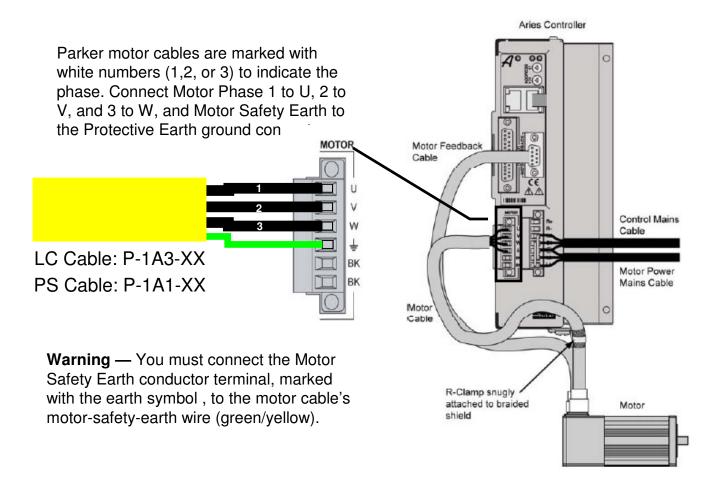
Part numbers	Description
AR-13CE	1300W, 6.3 amp RMS servo controller
BE342HQ-KPSB	BE Series Motor, PS connector, 2000 line smart encoder, brake, keyway
P-1A1-25	25ft Motor Power Cable, PS style
F-1A1-25	25ft Motor Feedback Cable, PS style

Part numbers	Description
AR-13CE	1300W, 6.3 amp RMS servo controller
MPP0922C6D-KPSN	MPP Series Motor, PS connector, Multi-turn Absolute smart encoder, keyway
P-1A1-10	10ft Motor Power Cable, PS style
F-1A1-10	10ft Motor Feedback Cable, PS style

Part numbers	Description
AR-08CE	750W, 4.5 amp RMS servo controller
MPJ1002R1E-KPSN	MPJ Series Motor, PS connector, 2000 line encoder, keyway
P-1A1-10	10ft Motor Power Cable, PS style
F-1A1-10	10ft Motor Feedback Cable, PS style



Parker Rotary Motor Wiring

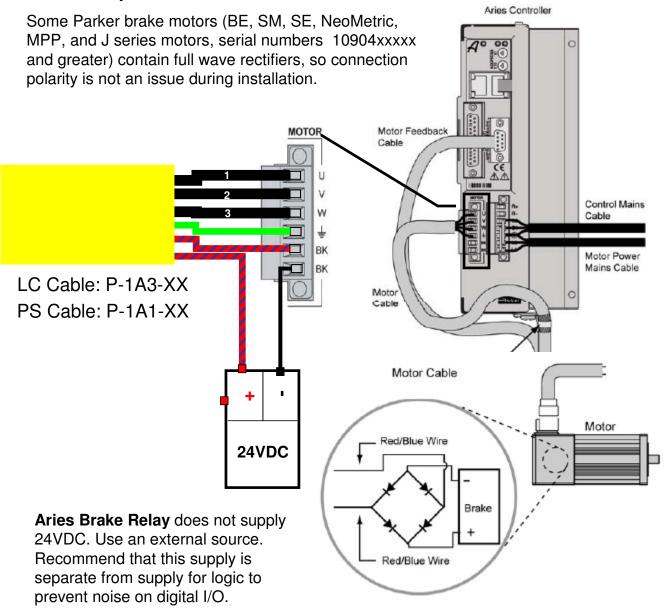


Important — An R-clamp must be connected to the drive and snugly attached to the exposed braided shield of the motor cable in order to control electrical noise.



Parker Rotary Motor Wiring

Brake Relay to Motors



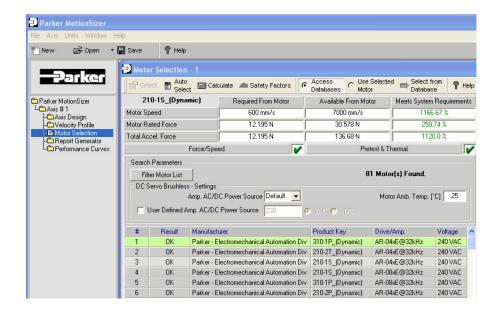


Aries Controller and Parker Linear Motors

The Aries Controller is perfect choice with Parker 400LXR Linear Motor Stages and Parker Trilogy Linear Motors. Either LME magnetic or RGH optical encoders can be used with any resolution.

- Sizing and Selection: **Parker Motion Sizer** includes 400LXRs, Trilogy Motors and Aries Controller
 - Aries Controller is listed as AR-04xE, AR-08xE, and AR-13xE
- 400LXR stages and Trilogy positioners are offered with plug and play connectors compatible with the Aries.
 - T2DA024NSALA3
 - 404T03LXRMP-D13H3L2CM13Z2E2R1A1P1
- VM15-PM breakout module provides a convenient method for wiring encoder, halls and motor thermal sensors to the controller when using Trilogy coils







Aries Controller with Linear Motors

Sample System Bill of Materials

Part numbers	Description
AR-04CE	400W, 3 amp RMS servo controller
404T05LXRMP- D13H3L2CM13Z2E2R1A1P1	LXR Series Linear Motor Table, 300mm travel, 1.0um linear encoder, NPN Limits/Home, 3.0m Cable Module for Aries
VM25	25-pin breakout for user I/O, limits with 2 ft cable
PS-60W	24 VDC, 60 Watt power supply for I/O

Part numbers	Description
AR-04CE	400W, 3 amp RMS servo controller
T2SA0192NSBLA3	Trilogy Single Rail Positioner, 210-2 series coil 12 inch travel, 5.0um linear encoder, Limits/Home, 3.0m Cable Module for Aries
VM25	25-pin breakout for user I/O , limits with 2 ft cable
PS-60W	24 VDC, 60 Watt power supply for I/O,limits

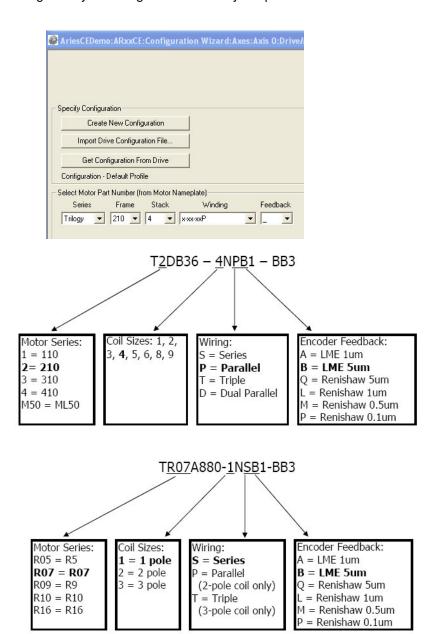
Part numbers	Description	
AR-04CE	400W, 3 amp RMS servo controller	
310-3A-NC-WD7-8	Trilogy 310-3 series coil, 8ft flying lead cables, delta wound with thermostat & digital halls	
31019M1-N	19.2 inch Nickel Plated modular magnet track	
LME-5F	5um magnetic linear encoder	
VM15-PM	15-pin breakout module for feedback with 2 ft cable	
VM25	25-pin breakout for user I/O, limits with 2 ft cable	
PS-60W	24 VDC, 60 Watt power supply for I/O,limits	



Aries Controller with Trilogy Linear Motors

ACR-View Setup

The motor selection screen in ACR-View includes all Trilogy coils combinations. Trilogy positioners can configured by selecting the coil used by the positioner.

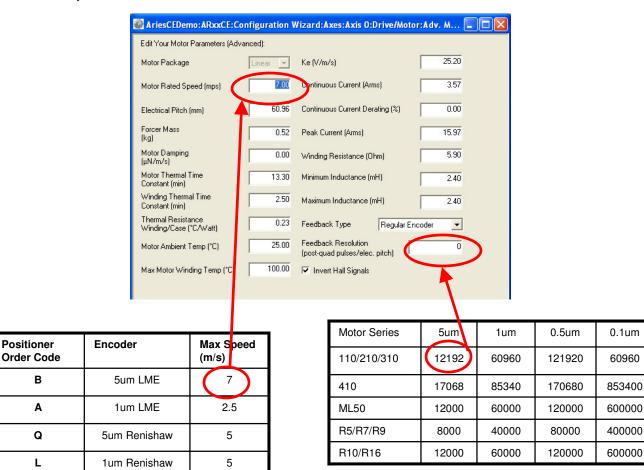




Aries Controller with Trilogy Linear Motors

ACR-View Setup

After selecting the coil part number for coil or positioners, the feedback resolution and rated speed needs to be entered in the Advanced Motor parameter screen. The feedback resolution is based on the encoder resolution and the motor electrical pitch. The charts below contain the necessary information.



3

0.4

0.5um Renishaw

0.1um Renishaw



М

Ρ

Trilogy Motor Wiring

Trilogy Motor Coils and Positioners have two different styles of wiring listed below. In 2008 Parker began changing wire color codes, both old and new codes are shown for reference.

T1, T2, T3 Positioners 110 210 310 coils with options W	Aries Motor Pin	
Old Color Codes	New Color Codes	
Red	Red/Yellow	U
Blue	Blue/Yellow	
White	White/Yellow	V
Green	Violet/Yellow	
Black	Black/Yellow	W
Brown	Brown/Yellow	
Drain (coils) Green/Yellow (Positioners)	Green/Yellow	Ground

T4, TR7, TR10, TR16 Positioners R7, R10, R16 Coils 410 and ML50 Coils 110 210 310 coils with options WD3	Aries Motor Pin	
Old Color Codes	New Color Codes	
Red	Red/Yellow	U
Brown	Brown/Yellow	٧
Orange	Orange/Yellow	W
Drain (coils) Green/Yellow (Positioners)	Green/Yellow	Ground



Trilogy Motor Wiring

	Encoder Cable	е	Note	Aries Feedback Connector		
Function	LME Magnetic	RGH Optical		Pin #	Signal	Description
+5V	Brown	Brown		4	+5 VDC	+5 VDC Encoder power
Ground	White	White		3	DGND	Encoder power return
A/	Yellow	Yellow	*	8	ENC A+	Encoder A Channel in
A+	Green	Green	*	7	ENC A-	Encoder A Channel in
B+	Blue	Blue		12	ENC B+	Encoder B Channel in
B-	Red	Red		11	ENC B-	Encoder B Channel in
Z+	Black	Pink		1	ENC Z+	Encoder Z Channel in
Z-	Orange	Grey		2	ENC Z-	Encoder Z Channel in
F	lall Effect Cab	le				
Function	Hall Type 1	Hall Type 2				
+5V	Black	Black		5	+5 VDC	+5 VDC Hall power
Ground	White	White		6	DGND	Hall power return
Hall C	Yellow	Brown	**	9	Hall 1	Hall 1 input
Hall B	Blue	Blue	**	13	Hall 2	Hall 2 input
Hall A	Green	Green	**	14	Hall 3	Hall 3 input
Motor Cable						
	Temp Style1	Temp Style2				
	Yellow	Grey		10 Thermal+ Motor thermal switch/thermistor		Motor thermal switch/thermistor
	Orange	Violet		15	Thermal-	Motor thermal switch/thermistor

Hall Type 1: All Positioners with flying leads, all coils not listed in Hall Type 2

Hall Type 2: Coils 210, 310, 410, with WD7/C

Temp Style 1: All Positioners with flying leads, Coils with WD0, WD1, WD2, WD7

Temp Style 2: Coils with WD3, WD4 options

* The encoder's A+ and A- are reversed at the Aries drive, A/ and A respectively.

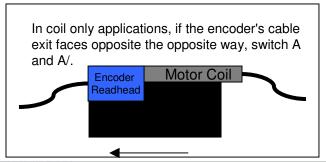
** Halls C/B/A are reversed at the Aries, Hall 1/2/3 respectively

The above connections presumes the motor, readhead and hall cables exit the same direction.

For positioners, this is the standard orientation.

Encoder Readhead

Motor Coil





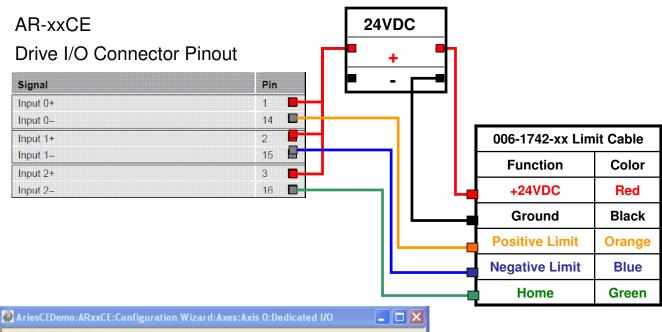
Trilogy Limit and Home Wiring

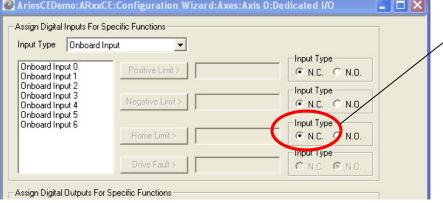
Applies to all Trilogy Positioners that include the connector box option.

TxxxxxxxxxLA3

Txxxxxxxx**MA3**





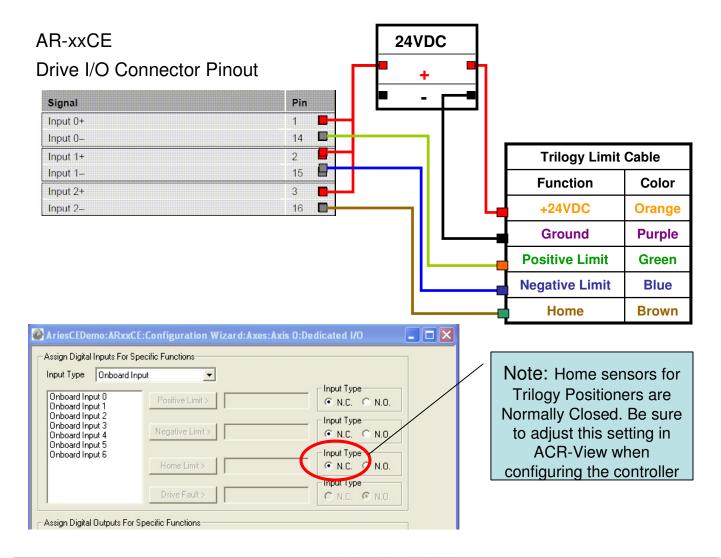


Note: Home sensors for Trilogy Positioners are Normally Closed. Be sure to adjust this setting in ACR-View when configuring the controller



Trilogy Limit and Home Wiring

Applies to all Trilogy Positioners that do NOT include the connector box option.





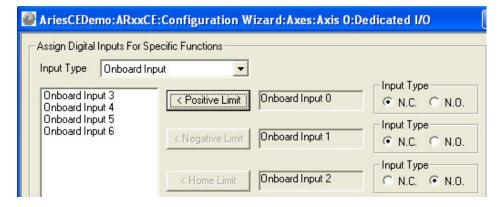
Parker Mechanics

Aries Controller with Parker Mechanics

Parker Mechanics are offered with a wide array of choices for limits and home sensors. Any of these combinations can be used with the Aries Controller. The Aries Controller can utilize either NPN (sinking) or PNP (sourcing) style sensors ranging from 5-24 VDC input levels.

- Aries controller includes 7 general purpose inputs, any of which can be configured for limits and home function.
- Limits and home must be selected on 3 consecutive inputs, ordered as positive, negative and home
- Normally Open (NO) or Normally Closed (NC) activation level can be configured for each individual input.
- Input voltage must be supplied externally
- Inputs are accessed via the controller 25-pin connector. The VM25 breakout module offers a convenient way to wire the inputs.

ACR-View Configuration: Limits and Home





Parker Mechanics

Aries Controller with Parker Mechanics

Sample System Bill of Materials

Part numbers	Description
AR-04CE	400W, 3 amp RMS servo controller
HD085T03N-D03M110LH2B1R1	HD Series Industrial Grade Table, 300mm travel, 10mm lead ballscrew, NPN Limits/Home and SM232AQ-TPSN motor
P-1A1-10	10ft Motor Power Cable, PS style
F-1A1-10	10ft Motor Feedback Cable, PS style
VM25	25-pin breakout for user I/O with 2 ft cable
PS-60W	24 VDC, 60 Watt power supply for I/O

Part numbers	Description
AR-04CE	400W, 3 amp RMS servo controller
404300XRMP- D2H12L11C5M42E1B1P1R1	XR Series Precision Grade Table, 300mm travel, 5mm lead ballscrew, NPN Limits/Home-Sensor Pack and SM232AQ-NPSN motor
P-1A1-10	10ft Motor Power Cable, PS style
F-1A1-10	10ft Motor Feedback Cable, PS style
VM25	25-pin breakout for user I/O with 2 ft cable
PS-60W	24 VDC, 60 Watt power supply for I/O

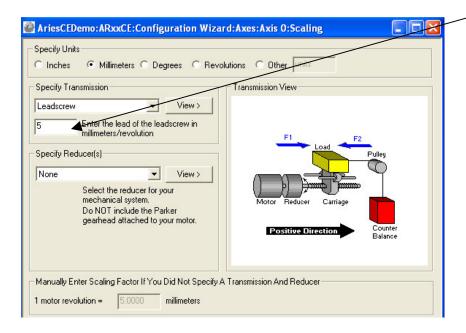
Part numbers	Description
AR-04CE	400W, 3 amp RMS servo controller
ET050B05 LA000E14FKAN0300A	ET Series Electric Cylinder, 300mm travel, 0.20 inch lead ballscrew, NPN Limits/Home-Sensor Pack and SM232AQ-TPSN motor
SMC50-1N (qty2)	N.C. NPN Hall Effect Sensor w/ mounting for ET50
SMH50-1N (qty1)	N.O. NPN Hall Effect Sensor w/ mounting for ET50
P-1A1-10	10ft Motor Power Cable, PS style
F-1A1-10	10ft Motor Feedback Cable, PS style
VM25	25-pin breakout for user I/O with 2 ft cable
PS-60W	24 VDC, 60 Watt power supply for I/O



Parker Mechanics

Aries Controller with Parker Mechanics

The Aries Controller allows users to program moves in predefined units of measure. Simply enter the relevant parameters in ACR-View and the correct scaling factor will be calculated. Parker mechanics are offered a wide range of ballscrew leads. The order codes and the actual leads are listed to the right for reference when using ACR-View.



Series	Order Code	Screw Lead
HD	D02	5mm
	D03	10mm
	D04	20mm
	D07	40mm
XR, XE	D2	5mm
	D3	10mm
	D4	20mm
	D5	25mm
	D6	32mm
	D9	2mm
	D31	1mm
	D32	2mm
	D33	5mm
	D34	0.10 inch
	D35	0.10 inch
ET	A04	0.250 in
	A05	0.200 in
	A08	0.125 in
	B01	1.000 in
	B02	0.500 in
	B04	0.250 in
	B05	0.200 in
	B08	0.125 in
	B53	1.875 in
	M05	5mm
	M10	10mm
	M20	20mm
	M50	50mm



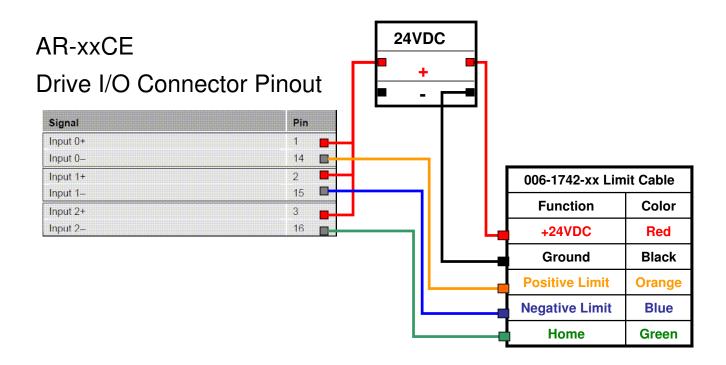
Limit and Home Wiring

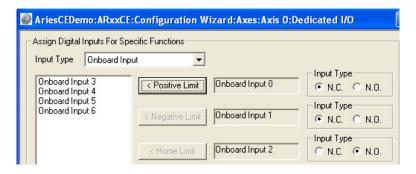
Applies to the following Parker Stages:

402/403/404XE ...L12H11

404/406XR...L12H11

404/406/412LXR....H3 L2







Limit and Home Wiring

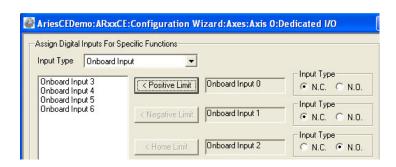
Applies to the following Parker Stages:

404XE...**H3L2**

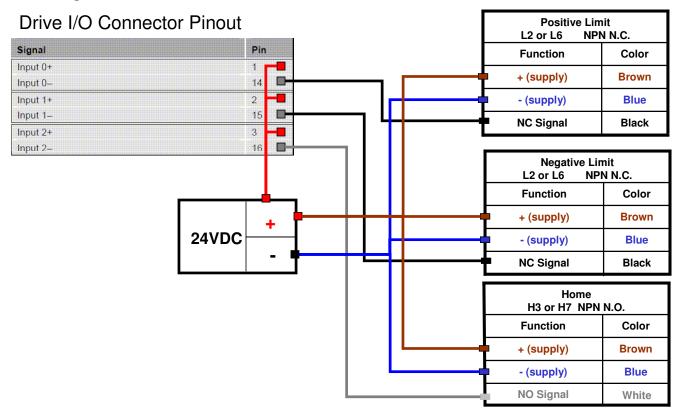
404XE...**H7L6**

401/402/404/406/412XR...**H3L2**

401/402/404/406/412XR...**H7L6**



AR-xxCE





Limit and Home Wiring

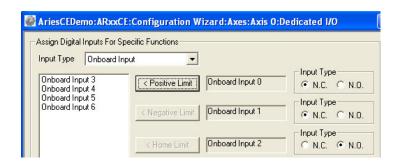
Applies to the following Parker Stages:

404XE...H5L4

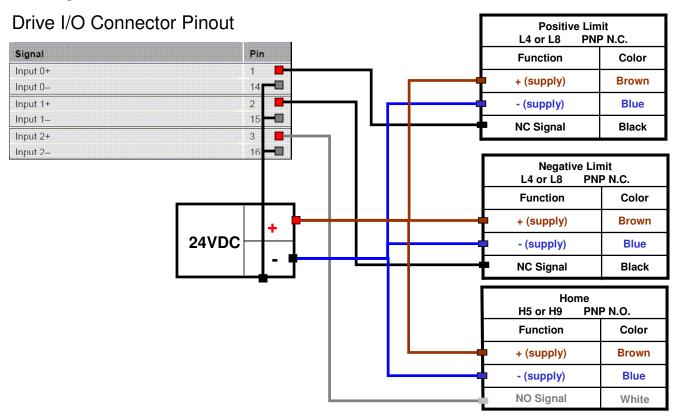
404XE...**H9L8**

401/402/404/406/412XR...H5L4

401/402/404/406/412XR...H9L8



AR-xxCE



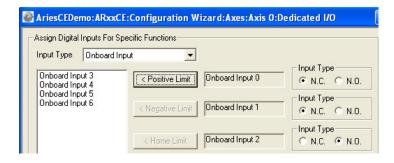


Limit and Home Wiring

Applies to the following Parker Stages:

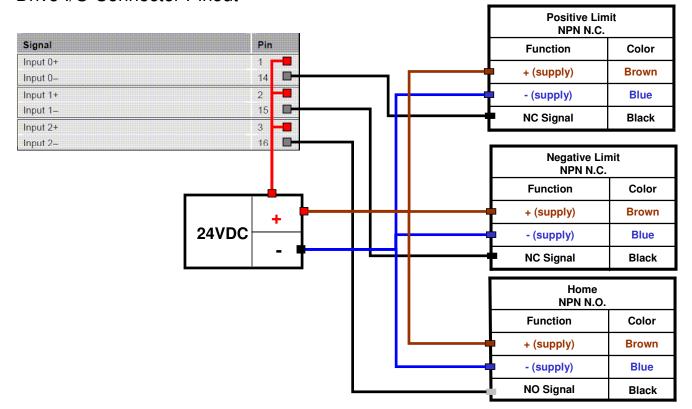
402/403XE...H3L2

HD085/125/185...LH2



AR-xxCE

Drive I/O Connector Pinout





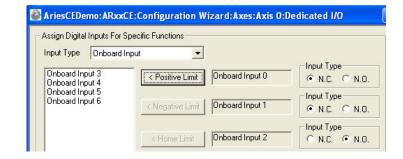
Limit and Home Wiring

Applies to the following Parker Stages:

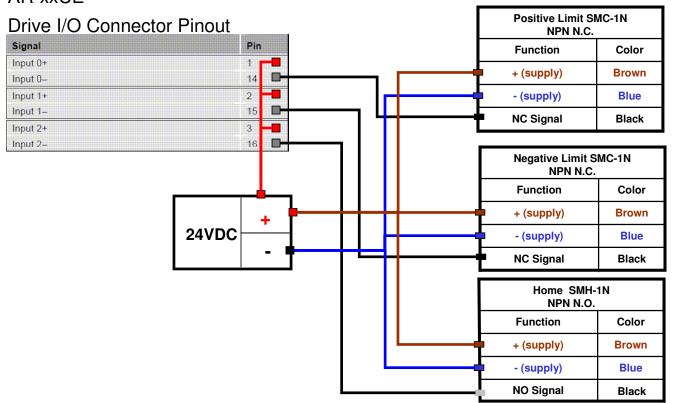
ET32/50/80/100/125 NPN Sensors ordered separately

Hall Effect Sensors

Part No.	Туре	LED Color	Logic	Cable/ Connector
SMH-1P	N.O.	Green	PNP	
SMH-1N	N.O.	Red	NPN	1.5m
SMC-1P	N.C.	Yellow	PNP	black with
SMC-1N	N.C.	White/Red	NPN	100000
SMH-1PC	N.O.	Green	PNP	
SMH-1NC	N.O.	Red	NPN	150mm black with connector*
SMC-1PC	N.C.	Yellow	PNP	
SMC-1NC	N.C.	White/Red	NPN	



AR-xxCE





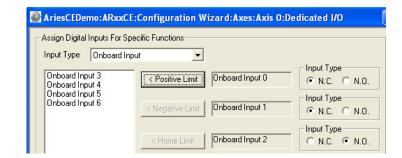
Limit and Home Wiring

Applies to the following Parker Stages:

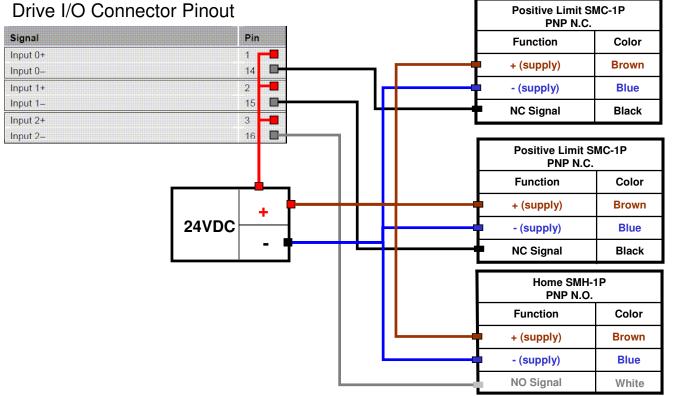
ET32/50/80/100/125 PNP Sensors ordered separately

Hall Effect Sensors

Part No.	Туре	LED Color	Logic	Cable/ Connector
SMH-1P	N.O.	Green	PNP	
SMH-1N	N.O.	Red	NPN	1.5m
SMC-1P	N.C.	Yellow	PNP	black with leads 150mm black with connector*
SMC-1N	N.C.	White/Red	NPN	
SMH-1PC	N.O.	Green	PNP	
SMH-1NC	N.O.	Red	NPN	
SMC-1PC	N.C.	Yellow	PNP	
SMC-1NC	N.C.	White/Red	NPN	



AR-xxCE





Getting Started With Xpress

Settings

Shell Comm

8 Interact Xpress Manager - Local:\\AriesDemo

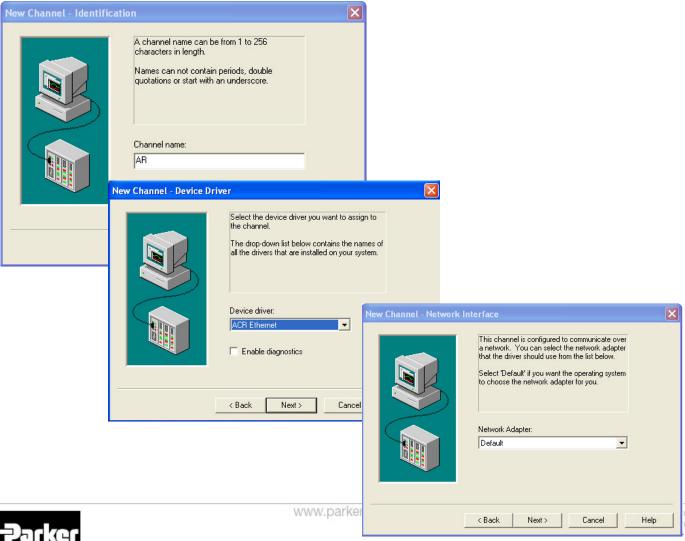
Help

Close

Click to add a channel.

Launch Interact Xpress Manager

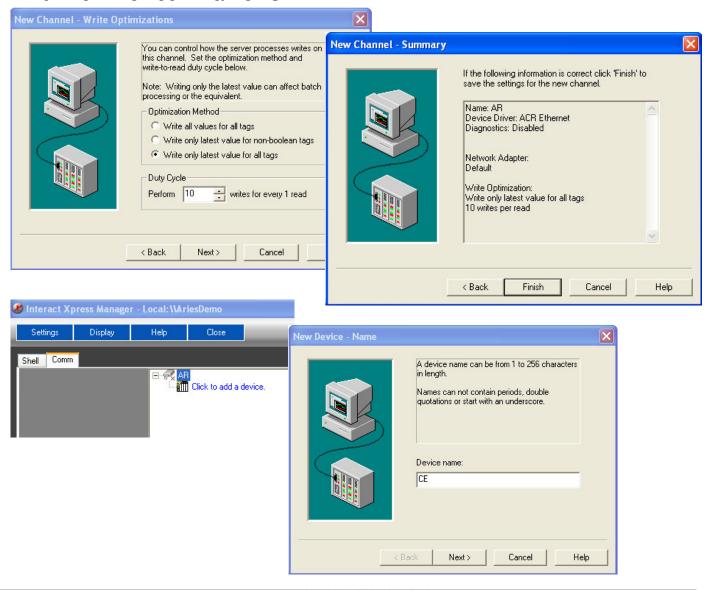
- Create a new project
- 2. Open the Comm Tab
- 3. "Click to add a channel"
- New Channel-Name: "AR"
- New Channel Device Driver: "ACR Ethernet"
- New Channel Network Adapter: "Default"





Getting Started With Xpress

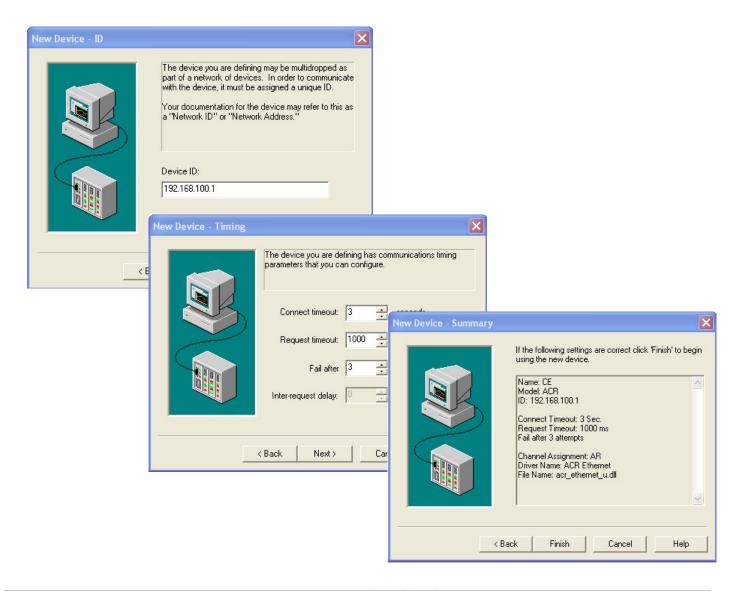
- 7. New Channel Write Optimizations: Use default settings
- 8. New Channel Summary
- 9. "Click to add Device"
- 10. New Device Name "CE"





Getting Started With Xpress

- 11. New Device ID: Enter IP address of Aries, default is 192.168.100.1
- 12. New Device Timing: Use Defaults
- 13. Finish

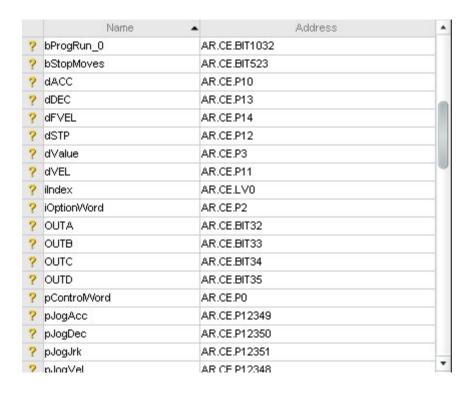




Getting Started With Xpress

Creating Tags

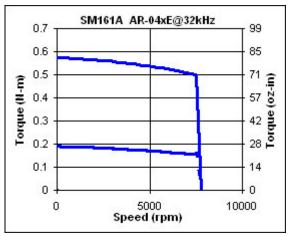
- Tag names follow the generic format: Channel.Device.BITxxxx or Channel.Device.Pxxxx
- In the above example Channel = AR, Device= CE
- Any controller BIT (also called flags) can be referenced and represent BOOLEAN type
- Any controller P parameter can be referenced, either LONGS or FLOAT(REAL)

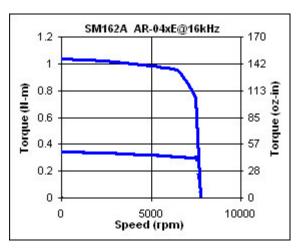


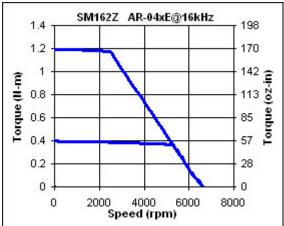


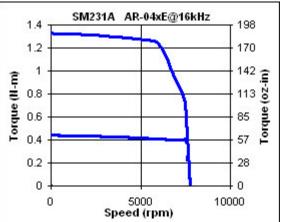
Speed Torque Curves



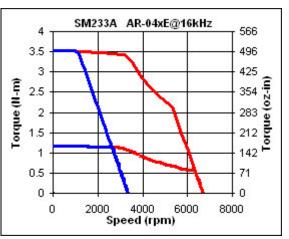






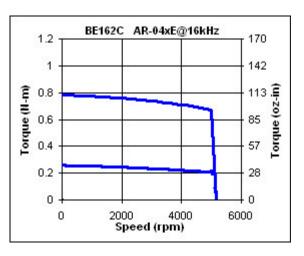


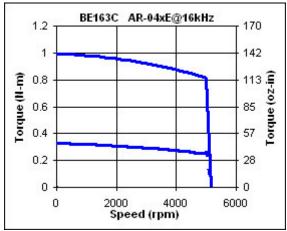


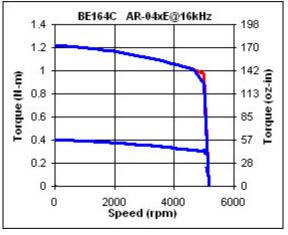


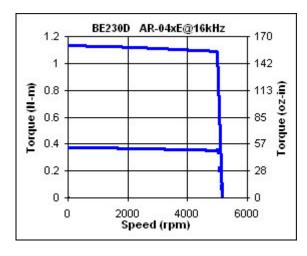


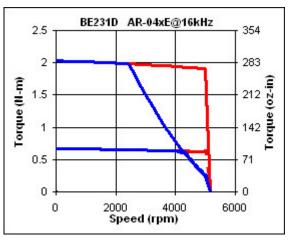




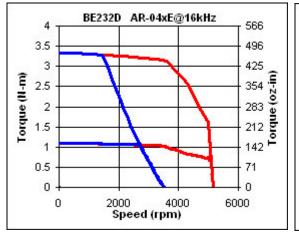


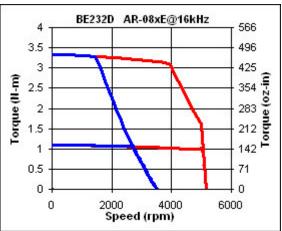




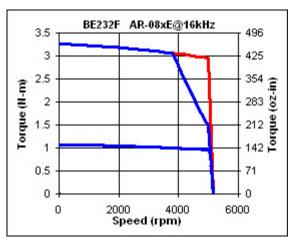




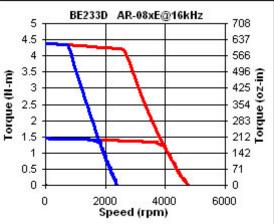




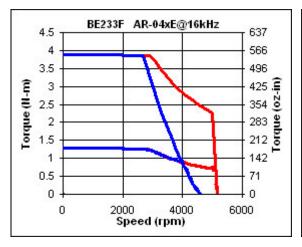


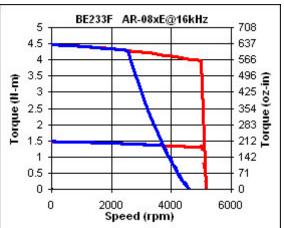


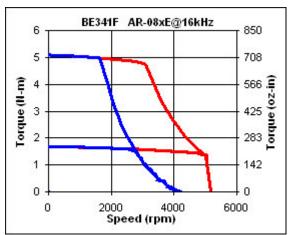


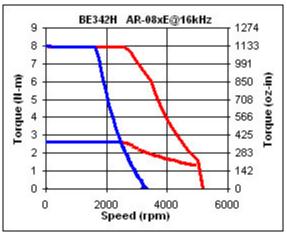


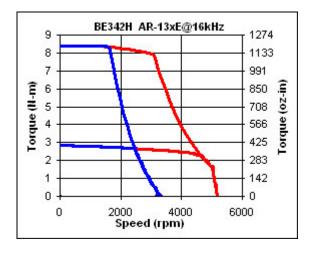


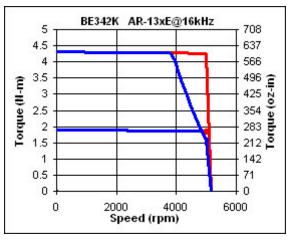




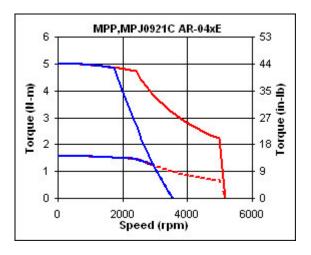


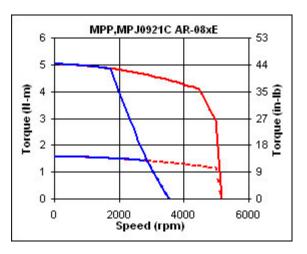


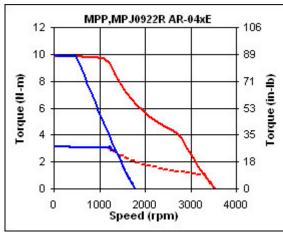


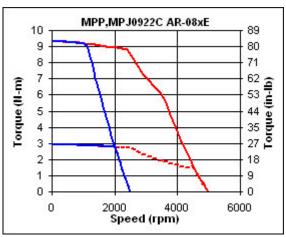


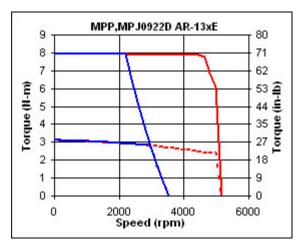




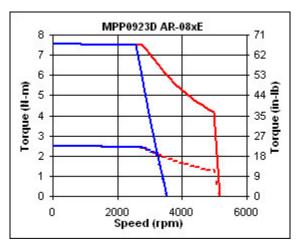


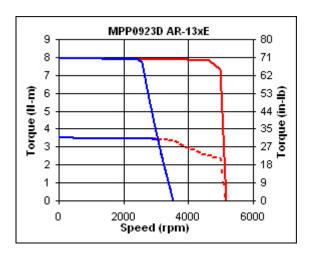


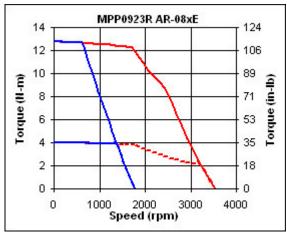


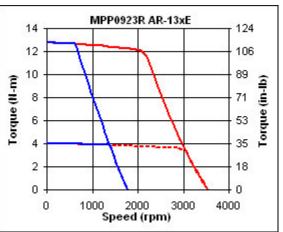






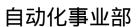






Parker核心代理商

北京润诚时代科技有限公司



地址:北京市朝阳区北苑路68号星河写字楼四层412室

邮编:100012

电话: 010-84450370 传真: 010-84450371

网址:www.fastarmotion.com www.runcheng.net

