

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

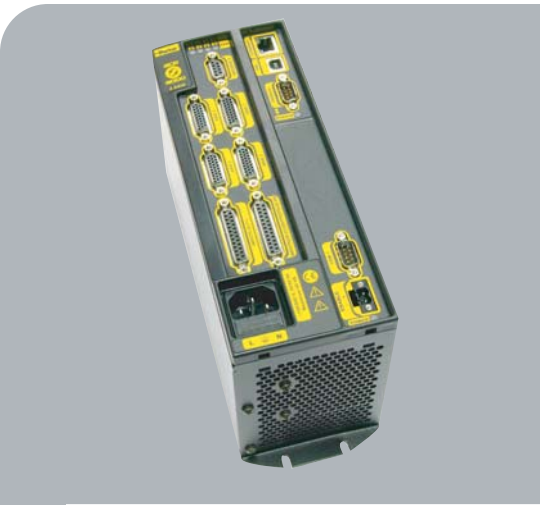
Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

ACR9000

A standalone motion controller provides high performance and real-time speed



The ACR9000, Parker's premier standalone motion controller, is capable of controlling up to 8 axes of motion and is software configurable for servo or stepper control per axis. The Ethernet connectivity option provides the ideal solution for connecting to PCs in applications requiring high-speed data transfer. The ACR9000 also has an expansion I/O port option for connecting to the Parker I/O family of remote I/O products. All Parker ACR controllers use the same system software and programming language; this assures users complete flexibility in upgrading their hardware while maintaining their investment in program development.

The ACR9000 is the solution for standalone applications requiring industry-leading performance in an affordable and easy-to-use package.

ACR9000 Features

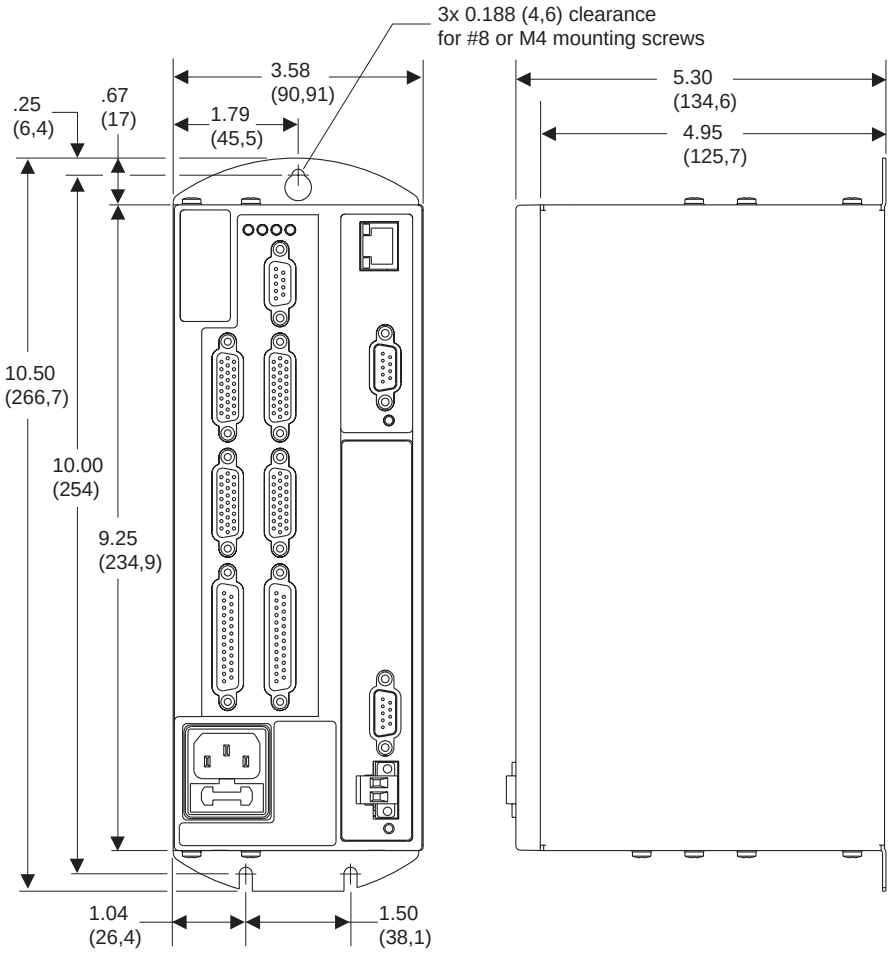
- Up to 8 axes of servo or stepper control
- 150 MFLOPS, 32-bit floating-point DSP
- Up to 10 encoder inputs at 20 MHz
- 10/100 Ethernet
- RS-232/RS-485 communication
- Expansion I/O port option for connection to Parker I/O family
    - Up to 512 discrete inputs
    - Up to 512 discrete outputs
    - Up to 32 analog inputs
    - Up to 32 analog outputs
- 24 VDC optically isolated onboard inputs
    - 20 on 2- to 4-axes configurations
    - 40 on 6- to 8-axes configurations
- 24 VDC optically isolated onboard outputs
    - 4 on 2- to 4-axes configurations
    - 8 on 6- to 8-axes configurations
- 120/240 VAC power input
- CE (EMC & LVD), UL, cUL approval

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

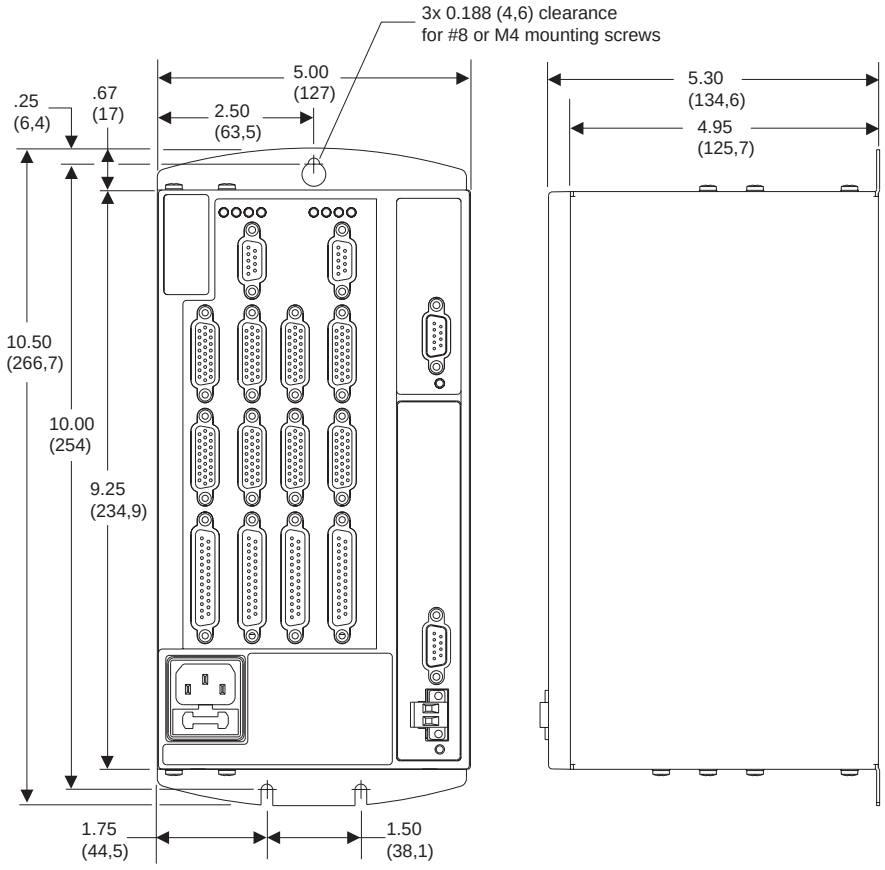
Hardware	Value
Axes/controller	2-8 axes
PC-Bus interface	NA (Standalone only)
Standalone option	Yes
Processor	32-bit floating-point DSP @ 150 MFLOPS / 75 MHz
Trajectory calculation	64-bit precision
User memory	1 MB
System memory	1 MB
Firmware	Flash-based
Flash memory	8 MB
Size	3.58" W x 10.5" H x 5.3" D (2-4 axes), 5.0" W x 10.5" H x 5.3" D (6-8 axes)
Operating system	Multi-tasking RTOS
Performance	
Multi-tasking	8 coordinated systems, motion/PLC programs
Trajectory update	Every 100-500 usec
Servo update	25 usec/axis
Ladder Logic PLC	100-500 usec scan time
Interpolation	Linear, circular, sinusoidal, helical and elliptical, splines, NURBS, 3D arcs
Servo loop	PID, velocity feedforward, acceleration feedforward notch, LoPass filtering
Position regulation	Hardware, < 1usec
Communications	
PC bus	NA
Standard interface	1 serial port (RS232 and/or RS422)
Optional interface	10/100baseT Ethernet, USB 2.0 full speed, expansion I/O port
Inputs	
Encoder input	Up to 10 at 20 MHz post-quadrature maximum
Optional onboard analog	input Up to 8 (12- or 16-bit resolution)
Command Signal	
Analog outputs	Up to 8 (16-bit precision)
Stepper outputs	Up to 8 @ 1 MHz maximum
Digital Onboard I/O	
	20, 24 VDC optically isolated onboard inputs for 2 to 4 axes
	40, 24 VDC optically isolated onboard inputs for 6 to 8 axes
	4, 24 VDC optically isolated onboard outputs for 2 to 4 axes
	8, 24 VDC optically isolated onboard outputs for 6 to 8 axes
Software Support	
Language interface	Visual Basic, Visual C++, C++
Program tools	ACR-VIEW Motion/PLC Program
Operating system	Windows® NT, 98, 2000, XP
Additional firmware highlights	Triggered floating point electronic GEARING Triggered segmented electronic CAM On-the-fly position and velocity matching Ladder Logic PLC Interruptible moves Either analog or digital feedback for position or velocity loops Dual-encoder feedback Data teach and learn functions Parameter-based with over 15,000 addressable pre-defined hardware registers Sinusoidal commutation NURBS and splines 3D arcs Automatic tangential tool operation

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

2 to 4 Axes



6 to 8 Axes





Part Number	Product Description
Drive Command Cables*	
71-021599-XX	ACR-to-Aries command cable (analog only)
71-021110-XX	ACR-to-ViX command cable
71-021108-XX	ACR-to-Compax3 command cable (analog only)
71-023715-XX	ACR-to-Dynaserv G3 without extra I/O
71-025064-XX	ACR-to-Dynaserv G3 with extra I/O
71-021112-XX	ACR-to-Gemini command cable (analog only)
71-022316-XX	ACR-to-Gemini command cable (step & direction only)
71-021113-XX	ACR-to-stepper cable (25-pin stepper connector)
71-022344-XX	26-pin flying lead cable
*-XX	Cables offered in 4' (-04) or 10' (-10) lengths, e.g., 71-021599-04
Expansion I/O Cable	
71-022338-02	2' Expansion I/O cable (9-pin D-sub to flying lead)
71-022338-04	4' Expansion I/O cable (9-pin D-sub to flying lead)
Communication Cable	
71-016939-10	10' RS-232 communication cable
Breakout Module	
VM25	25-pin screw terminal breakout board for onboard I/O connector and Limit/Home connector (1 required for each connector), DIN rail mount (2' cable included)
VM26 2	6-pin screw terminal breakout board for axes connectors, DIN rail mount (2' cable included)
AC Power Adapter	
43-011905-01	240 VAC Power plug adapter
Power Supply	
PS-60W	24 VDC, 60 Watt power supply for I/O and enable
Parker I/O System (Expansion I/O)	
PIO-337	PIO Bus coupler, CANopen standard
PIO-347	PIO Bus coupler, CANopen econo
PIO-430	PIO 24 VDC digital input module, 8 channel
PIO-402	PIO 24 VDC digital input module, 4 channel
PIO-400	PIO 24 VDC digital input module, 2 channel
PIO-530	PIO 24 VDC digital output module, 8 channel, 0.5 Amp
PIO-504	PIO 24 VDC digital output module, 4 channel, 0.5 Amp
PIO-501	PIO 24 VDC digital output module, 2 channel, 0.5 Amp
PIO-468	PIO 0-10 VDC analog input module, 4 channel
PIO-480	PIO 0-20 mA analog output module, 2 channel, differential isolated
PIO-550	PIO 0-10 VDC analog output module, 2 channel
PIO-552	PIO 0-20 mA analog input module, 2 channel
PIO-600	PIO end module

How to Order

9000 ☐ ☐ ☐

- **P0** - RS232/485 (Base)
- **P1** - RS232/485 Ethernet/USB
- **P2** - RS232/485 with expansion I/O port
- **P3** - All of the above

- **U2** - 2 Axes, 3 Encoder Inputs
- **U4** - 4 Axes, 5 Encoder Inputs
- **U6** - 6 Axes, 8 Encoder Inputs
- **U8** - 8 Axes, 10 Encoder Inputs

- **M0** - No options

Example: 9000P2U4M0
- 4-axes controller with RS232/485 and Expansion I/O port

Parker Hannifin Corp.
Electromechanical Division
parkermotion.com

Parker anything possible

Aerospace | **Automation** | Climate & Industrial Controls | Filtration | Fluid Connectors | Hydraulics | Instrumentation | Seal

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP