

PEGASUS ELITE Collaborative Robot Cart by AWG

PROVIDING SOLUTIONS FOR A BETTER TOMORROW

Finding skilled welders is challenging across all industries. Automation is usually the best solution and the most practical and cost-effective answer. We combined more than a half-century of welding knowledge, gas expertise, and over 500 automation installs with your real-world needs to create the AWG Cobot Cart. It is designed for safe, direct human interaction. Take your business to the next level with this affordable, innovative solution.

Features

- The YRC1000, is a compact, fast and flexible controller for MOTOMAN robots that combines high performance robot controller in a small footprint cabinet. Besides the typical YASKAWA controller functionality, the YR-C1000 includes additional functional improvements. Speed of the controller has been increased by lowering the ladder scanner time. Path accuracy improvement assures increased precision in trajectory performance independently on the motion speed.
- Pegasus Elite features the premier Fronius 320i power source. This powerful source enables a remarkably fast response during welding, whereby the arc can be controlled even more effectively. The advanced SynchroPulse process and the newly developed penetration and arc length stabilisers simplify the use of this proven welding process.
- We also can customize it for push-pull applications for aluminum processes.
- The AWG Cobot backed by the Yaskawa YR-C1000 controller is the only one on the market to offer an external axis positioner giving you an optional 7th axis.
- The six-axis HC10DTP collaborative robot enables operation with, or in close proximity to human workers. Precision hand-guiding facilitates easy programming for fast implementation of the robot system, while a pinch-less design featuring Power and Force Limiting (PFL) technology constantly monitors force to quickly react to contact.



AWG Pegasus Elite cobot w/ YRC1000 controller & Fronius welder - Fronius offers the widest lists of welding processes such as: Synergic Pulse, Synergic Pulse with Syncro-Pulse, CMT (cold metal transfer), CMT Mix Drive, CMT Cycle Steps, PMC (Pulse Multi Control), PMC Mix Drive, PMC Ripple Drive, LSC (Low Spatter Control), and LSC Root.

For more robust applications, choose this controller for all of your welding needs. Paired with the Fronius power supply, this is hands down the most powerful system available.

We also offer push/pull wire solutions for aluminum applications. Various jig and fixture kits are also available if the standard 78pc kit doesn't meet your needs. Many other options available... please inquire.



KEY BENEFITS

Fast and easy setup for many weld jobs. Easily trainable robot for programming different welding projects.

APPLICATION

Arc Welding

American Welding & Gas Automation Division

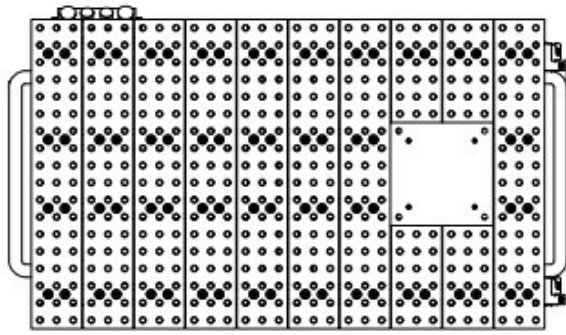
2629 Rand Road
Indianapolis, IN 46241

Please contact your local territory manager for more information.



SPECIFICATIONS

Cart dimensions: 5' x 3' x 3'6"



Robot

HC10DTP

Collaborative Robot with standard pendant. It has a 47 inch (1200mm) horizontal reach.

YRC1000 Controller

Programming pendant with single point of control Large color touch screen USB and SD card memory storage Standard workcell software functions Multi-tasking (up to 7 jobs at once) Coordinated motion Twin synchronous Mirror copy Ladder logic editing/display Collision detection Software weaving Ethernet port Ethernet I/O options



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YRC1000 Controller w/ smart pendant

- Built to a global standard and does not require a transformer for input voltages ranging from 380VAC to 480VAC
- I/O communication speed is improved by as much as 50% for superior work efficiency
- MLX300 software add-on option for PLC integration
- High path accuracy enables increased precision in trajectory performance independently of motion speed



- Integrated machine and functional safety for simplified setup
- Single controller-to-robot cable for improved cable reliability

Heavy-Duty industrial cart

- Large square footage of 5'x3' featuring boreholes on the top surface and feature patented self-locating and reversible table top plates.
- Nitrided tabletop finish
- Table Accuracy: Table flatness: ± 0.005 per 24" x 24", Hole spacing: $2.000'' \pm 0.001$, Hole diameter: $0.625'' +.002/-0.000$, Plate thickness: $0.630'' \pm 0.004$
- Designed to increase welding productivity through use of a fast, accurate, and easy to understand modular fixturing system. The patented plate + slot + hole system allows users to place clamps and components at any point on the tabletop as required for each unique fixturing project.
- Includes 78-pc. Fixturing Kit

