

Standard Features

- Wire feeder.
- Water recirculator or chiller.
- AVC, including limits for intelligent welding.
- Touch/Retract for initial arc gap setting.
- Surface Probing.
- Weave for high deposition rates.
- Step Back and Clad Count, including auto-calculation of both from clad length and nominal step size.
- Auto-adjustment of table speed with component size.
- Pulsing, on arc amps, hot wire amps and wire feed rate.
- Resume, after program interruption.
- Maths functions.
- Off-line programming.

Pre-loaded programs include:

- Base clad.
- Slope clad.
- Step fill.
- Open ring groove inlay.
- Calibration programs.
- Bore clad.
- Face clad.
- Cross-bore clad.
- Closed ring groove inlay.

Note: To maintain customer confidentiality, programs are supplied without parameter values.

Customised Solutions

Dynamic Arc design and build cost-effective systems to customer requirements. Whether your needs are application specific or for maximum versatility; if you have space constraints or need special functions Dynamic Arc have the knowledge and experience to create the ideal solution.

This custom facility includes the development of specialist welding procedures. The attainable levels of accuracy and repeatability, coupled with the programming flexibility mean that it is now possible to achieve welds on a production basis that were not previously viable.

Contact Dynamic Arc to discuss your cladding and inlay requirements.

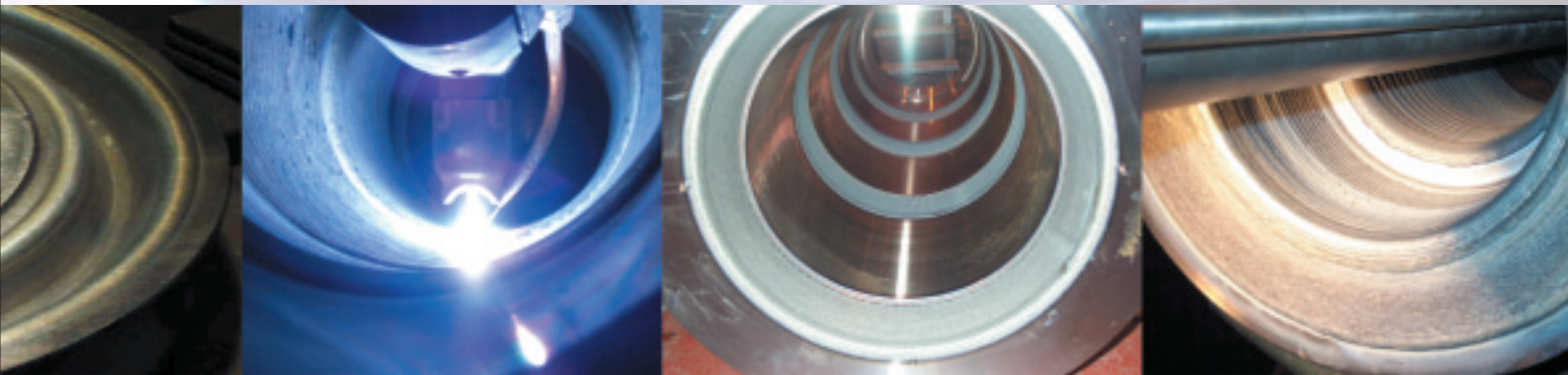
Automated Weld Clad & Inlay Machines

flexibility
ease of use
quality & efficiency

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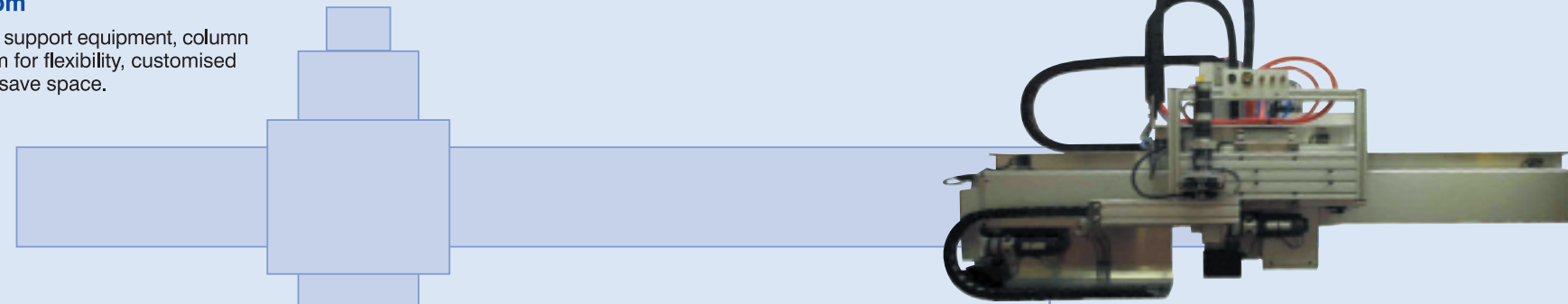
DYNAMIC ARC
Automated Welding Systems



AutoClad Welding Systems

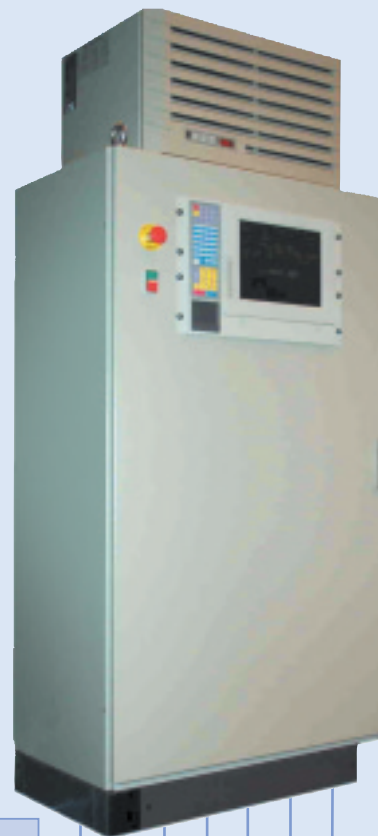
Column & Boom

- Choice of support equipment, column and boom for flexibility, customised fixture to save space.



Control Cabinet

- Integrated, digital control for accuracy and precision.
- Programmable for repeatability.
- Real-time display of welding and motion information.



Mains Distribution Unit

- Mains Distribution Unit provides all system power and protection from single 3-phase supply.



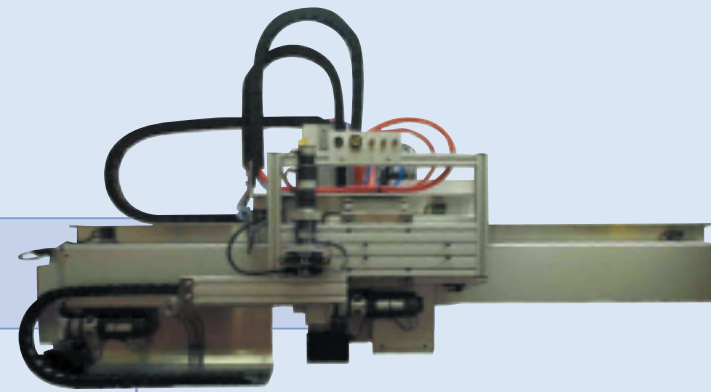
Power Sources

- TIG and Hot Wire Power Sources use inverter technology to provide accurate current and pulse control.



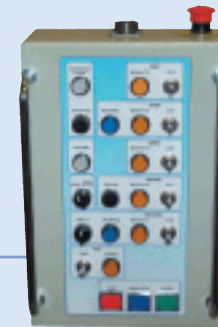
Slides

- Robust slide system for precision and repeatability.
- Optional 'Weave' axis for high deposition rates.
- Swivel mounted, allowing vertical or horizontal orientation.
- Step and AVC axes interchangeable, even during welding.



Pendant

- Operator Pendant for manual set up and program override during welding.



Manipulators

- Choice of manipulators to suit component type.
- Accurate speed and position control.
- Twin tables for versatility and efficiency.



Quality & Efficiency

- Digital, programmable control ensures repeatability and consistent quality.
- Automatic sequencing reduces operator intervention, improving productivity.
- Welder skills focused on procedure optimisation, improving resource efficiency.

Easy to Use

- Pre-loaded programs for a variety of component features.
- Automatic data generation on many of the pre-loaded programs, no manual data input.
- Welding and motion parameters adjustable during welding using the operator pendant.
- Menu driven control software, no programming knowledge required.

Flexibility

- Diverse range of weld geometries and orientations achievable.
- User programmable, no hard coding.
- User configurable, add extra actuators and sensors, change pendant functions.
- Maths functions and surface probing permit auto-generation of component specific programs.
- Programs can include multiple welds, multiple processes and hold points.
- Programs transferable from one machine to another.

Upgrade & Refurbishment

- Highly cost effective alternative to new equipment.
- Adds significant improvements to machine capabilities.
- Extends operational life of machines.
- Full or partial upgrades depending on requirements and machine condition.

... customised to your needs