Products Overview

- * Capacitor Discharge 125ADP, 300ADP, 1000ADP,
- * High Frequency Inverter HF25/HF27
- * Middle Frequency Inverter IS Series (IS-800CR, IS-1400CR)
- * Linear DC

DC29, UB29

* Weld Monitoring

ADAM, MG3



Products Overview

* Welding Heads

80 / 180 series (Thinline Standard)300 series (Electro Magnetic)50 series (Light Force)

* Accessories

Handpieces, Footpedal & Foot S/W Optics & Illumination Electrodes, Holders and Adaptors

* Thermocouple Welder

- TCW



Capacitor Discharge

- Dual Pulse Function
- •Built-in Monitor
- Upslope Function
- •Polarity Programming by puls
- •Four Selectable Pulse Widths
- •High Resolution 6.5 inch Color Display
- •High Repetition Rate







HF25/HF27

- 25KHz closed-loop
- Built-in weld monitor with graphical display
- User defined limits and alarm
- 128 different weld schedules
- 10 different weld profiles
- Precise control of heat and time









Run Screen – Shows that 2nd Pulse was inhibited from firing.

- Use WELD1 to test key electrical parameter against pre-set limits
- Inhibit WELD2 energy if
 WELD1 measurement is out of limits

Advantages

- Prevents unacceptable welds
- Prevents electrode damage
- Alerts operator to weld fault
- Relay outputs can signal automation





Monitor Screen - Shows weld current exceeding limit.

	1
	-
0.400KA 0.2 0.5 5.0 0.0 1.0 0.0 0.0 0.0 001	15

Run Screen – Shows termination of weld current during weld pulse Terminates the weld energy when a pre-set current, voltage or power limits are exceeded.

Advantages

Prevents explosions and part damage

- Prevents electrode damage
- Alerts operator to weld fault
- Relay outputs can signal automation



Active Part Conditioner (APC)



Monitor Screen – First pulse time automatically compensates for varying levels of oxides. Adjusts weld time on the first pulse to displace varying oxide levels

Advantages

- Consistent resistance for main welding pulse
- Prevents weld splash
- Increases process yield
- Helps minimize the impact of varying parts



Middle Frequency Invertor

IS-800CR / IS-1400CR

- 800 or 1,400 amp primary output
- Six feedback modes
- Built-in current, voltage, power, time and pulse monitor
- Pre-weld check process tool
- I/O check screen
- Cascade option : 5 and 7 way cascade
- RS232 or RS485 communication
- NEMA style enclosures



Linear DC

DC29, UB29

- Micro spot welder
- Single phase input
- Compact size
- Dual pulse schedules
- Very fast rise time
- Precisely controlled repeatable waveform
- 4 control modes
 - Current, Voltage, Power, V-A(Voltage-Current)





Weld Monitoring ADAM

- Advanced Data Analysis Monitor
- High Resolution Sensors
- Easy to program User-Interface
- TCP/IP Communications Enabled





- Two Independent Measurement Channels
- Oscilloscope Functions with Zoom and Cursor Modes
- Full On-screen SPC Capability



80 / 180 Series

- Adjustable Force-Firing
- Air Actuation
- Adjustable Tare Spring
- Up to 38mm stroke
- Up and Down Stops
- Rugged Design
- EZ-Air Technology











Solenoid







EZ-Air Force Kit

Benefits Elimination of over force

Reduced force adjustment time

Greater process control

Higher yields

Features and Advantages

- Simple "one knob" force set up
- No need to synchronize air pressure with force spring adjustment
- No need for constant force verification



EZ-Air Force Kit





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EZ-Air Force Kit















300 series (Electro Magnetic)

- Precisely controlled, programmable weld and follow up force profile
- Minimal impact force and ringing
- Electronic Control of all Weld Head Functions
- Displacement monitor, SPC data output
- Input/Output for integration







300 series (Electro Magnetic)

Programmable Force Profile



Weld to Displacement/Set Limits





50 Series Light Force Head

- •40 1000 gram-force,
- •Continuously adjustable
- •No over-force
- •1.9cm Stroke
- •Force adjustment :
- Large force control knob with digital readout
- •Air or Foot actuation
- •Electrode : Unitip, Unibond





Weld Accessories

- Handpieces
- Footpedal & Foot SW
- Optics & Illumination
- Electrodes
- Holders and Adaptors
- Others







