

ARGOTRON™ 350

MOULD WELDER

Material being weld



ARGOTRON™ MOULD WELDER

ARGOTRON™ 350 is a newly developed resistance-type micro welding machine.

ARGOTRON™ 350 is a Push-Button operation making easy and accurate repairs.

ARGOTRON™ 350 is 40% more powerful than our previous **ARGOTRON™ 60** enabling welds of up to 0.2mm flat sheets.

ARGOTRON™ 350 has a precision function which enables small precise welds to be made ; a feature which other mould welders do not possess.

NEW PUSH-BUTTON SYSTEM

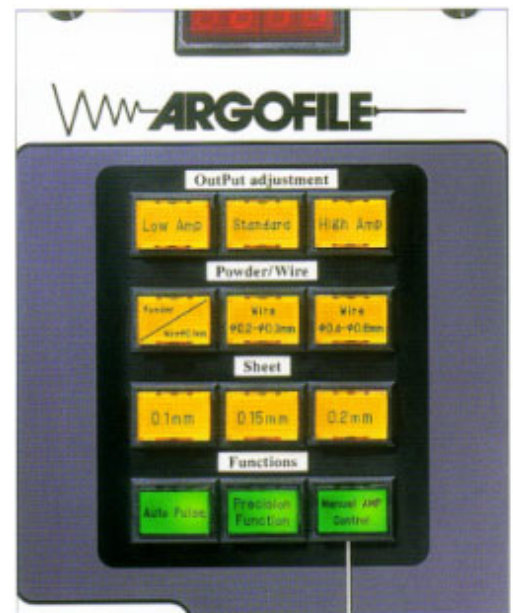
- Mould welding made easy and accurate just by pushing the button appropriate to the weld being made.

MANUAL OVERRIDE

- An infinite variety of welding conditions can be applied by using the manual override button.

APPLICATIONS

- Welding repairs without heat or damage to surrounding surfaces to plastic, rubber, die casting and compression moulds.
- All mould steels, i.e., carbide, stainless etc., with the exception of aluminum can be repaired by **ARGOTRON™ 350** .
- Building up of parting lines, mould seams, 3-point corners and edges.
- Filling in pores, repair of pinholes
- Repairing of worn slides, ejection pins, cores and mould parting lines by metal build-up with **ARGOTRON™ 350** .
- Modification of inserts and cores.
- Adding a radius to an inner corner due to a design change.



SPECIFICATIONS ARGOTRON™ 350

Input Voltage	AC100V, 120V, 230V, 240V, 50-60Hz
Consumable Power	1500VA
Control System	SCR Switching System
Auto Timer On	300 beats / minute
Output Power	1200W
Output Voltage	0-10V (Peak value)
Output Current	0-1650A (Peak value)
Auto Function	Current discharge control for tack or continuous welding
Weight	17kgs
Dimension	165 x 425D x 385H (mm)



STANDARD ACCESSORIES

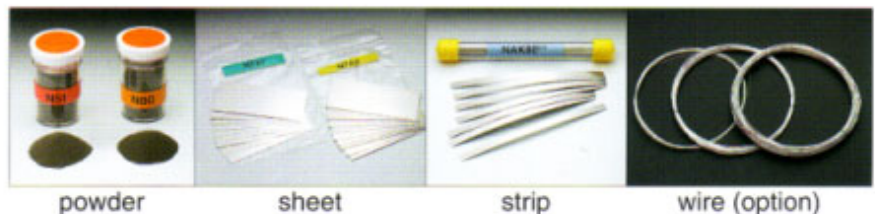
POWER PACK

- P-501 Electrode holder cord-1 pc.
- P-502 Earth cord with copper plate-1 pc.
- P-505 or 521 Power cord-1 pc.
- P-506 Foot switch-1 pc.
- P-510 Tool box-1 pc.
- P-511 Scissors-1 pc.
- P-512 Screw and wrench set-1 set.
- P-515 Replacement fuse, 2A-1 set.
- P-522 Tape (for masking)-1 roll.
- P-523 Safety goggles-1 pc.
- P-524 Gloves-1 set (a pair)



Welding material :

- MA-50, NTA1, 0.1T-10 pcs.
- MA-51, NTA2, 0.2T-10 pcs.
- MD-600, NAK80, 0.1T-10 pcs.
- MP-66, N51, Powder-50 gm.
- MP-70, N80, Powder-50 gm.



(A Holder + an Electrode or a Collet inserted = Set)

- H-307 Electrode holder 3S (Brown) 1 pc. + EM-R2 Magnetic electrode ($\phi 2 \times 50L$) 1 pc.
- H-303 Electrode holder 4 (Brown) 1 pc. + EM-R4 Magnetic electrode ($\phi 4 \times 60L$) 1 pc.
- H-306 Electrode holder 2S (Black) 1 pc. + E-R22 Standard electrode ($\phi 2 \times 50L$) 1 pc.
- H-307 Electrode holder 3S (Black) 1 pc. + E-R33 Standard electrode ($\phi 3 \times 50L$) 1 pc.
- H-303 Electrode holder 4 (Black) 1 pc. + E-R44 Standard electrode ($\phi 4 \times 50L$) 1 pc.
- H-304 Electrode holder 5 (Black) 1 pc. + A-403 Insert collet 1.2T 1 pc. + E-205 Flat electrode (1.2t x 5w x 35L) 1 pc.
- EM-R3 Magnetic electrode ($\phi 3 \times 50L$) 1 pc.
- EM-212 Magnetic electrode ($\phi 4 \times 50L$) 1 pc.

ARGOTRON™ MOULD WELDER

Precision Mould Repairs made easy with ARGOTRON™ MOULD WELDER

- Perform high-quality repairs to very small mould areas.
- Increase the life of a mould after a repair.
- Reduce repair costs by up to 85% with special metal alloys developed for all conventional types of steel.
- Modern control electronics ensure homogeneous welding pattern even under the most difficult working conditions.

ADVANTAGES

- The process emits almost no heat.
- Mould repairs can be done without removing the die from the press thus saving time.
- Hardening and plating can be done after welding.
- Only gentle pressure is required on welding electrodes to fill pin holes or cavities.
- Magnetic electrodes enable accurate placement of powdered metal on the repair position.
- Suitable for all forms of mould damage. No need for other types of welding, e.g. argon, laser welding.
- Safe and easy to operate, no special training necessary.
- No harmful welding fumes or toxic gases are emitted.
- The Argotron range of welding alloys are free of impurities which result in a weld which is strong and reliable.

THE MICRO-WELDING METHOD

Using only gentle pressure ARGOTRON™ uses electrical pulses to fuse metal plates, strips, powder or wire to the contour of the mould under repair (Fig. 1). A magnetic electrode for easy use of metal plates, strips and powder, containing alloying properties of the material being welded, are first fused then bonded to the base metal by a systematic and controlled supply of energy.

This produces a weld (Figs. 2 and 3) which also can be controlled by various adjustments of the power pack (frequency of the electrical pulses, output current).

Example of the weld by Precision Function is shown in Fig. 4 and 5. Special training is not needed to carry out this welding process.

