

## AD SERIES BUTT WELDERS • 6 MODELS

ALUMINUM • COPPER • SOLID OR STRANDED CONDUCTORS

Featuring a robust design and extra heavy-duty transformers, all 6 models of AD Series butt welders are engineered for cost-effective welding of aluminum, copper and brass, allowing continuous processing of wire, rod and cable products. They offer excellent welds on a consistent basis.

### THE AD SERIES OFFERS MANY SUPERIOR FEATURES, INCLUDING:

- Welding of stranded conductors without sleeves - save on consumables
- Unique two-stage upset (low to high pressure) mechanism
- Convenient controls for precise selection of heat and spacing
- Foot controlled dual clamping pedals for easy placement and adjustment
- Pneumatically controlled heavy duty clamping mechanism for positive positioning
- Welding die sets with special hard inserts for alignment and clamping prevent slippage
- SCR electronic weld heat control for precise heat setting

NEARING  
**100 YEARS**  
of **EXCELLENCE**

**GLOBAL BUTT WELDER  
MANUFACTURER**



SEE BACK FOR TECHNICAL SPECIFICATIONS AND FEATURES

#### MICROWELD CUSTOMER SERVICE & SUPPORT WORLDWIDE

Micro Products Company  
6523 N. Galena Road  
Peoria, Illinois 61614 (U.S.A.)  
Phone: +1 630-406-9550  
Toll-Free: 1-800-872-1068 (in U.S.A.)  
Email: [info@micro-weld.com](mailto:info@micro-weld.com)

For International Rep Network or  
More Information: [www.micro-weld.com](http://www.micro-weld.com)

# AD SERIES BUTT WELDERS • 6 MODELS

ALUMINUM • COPPER • SOLID OR STRANDED CONDUCTORS

## Specifications Weld Solid or Stranded Conductors Without Sleeves

Stock Size Range	AD-3.1	AD-4.1	AD-5.1	AD-6.1	AD-8.1
Aluminum-Solid (mm)	6,35 to 12,70	9,52 to 19,05	12,70 to 22,20	15,80 to 34,92	15,80 to 38,10
Copper-Solid (mm)	4,76 to 9,52	6,35 to 12,70	9,52 to 19,05	12,70 to 25,40	12,70 to 31,75
Aluminum Strand (mm <sup>2</sup> )	38 to 26	85 to 283	126 to 385	202 to 642	253 to 1013
Copper Strand (mm <sup>2</sup> )	27 to 85	38 to 126	85 to 283	126 to 506	126 to 642

Line Demand Electrical	AD-3.1	AD-4.1	AD-5.1	AD-6.1	AD-8.1
Aluminum 380 Volts	210 Amps	280 Amps	350 Amps	720 Amps	840 Amps
Aluminum 480 Volts	170 Amps	225 Amps	280 Amps	665 Amps	775 Amps
Aluminum 600 Volts	135 Amps	180 Amps	225 Amps	530 Amps	715 Amps
KVA Rating Aluminum	82 KVA	108 KVA	135 KVA	320 KVA	375 KVA
Copper 380 Volts	350 Amps	465 Amps	580 Amps	1200 Amps	1400 Amps
Copper 480 Volts	280 Amps	370 Amps	460 Amps	1100 Amps	1290 Amps
Copper 600 Volts	225 Amps	295 Amps	370 Amps	885 Amps	1190 Amps
KVA Rating Copper	135 KVA	177.6 KVA	220.8 KVA	530 KVA	620 KVA
Weld Duration-Maximum	3 sec.	5 sec.	7 sec.	15 sec.	20 sec.
Frequency	50 Hz or 60 Hz	50 Hz or 60 Hz	50 Hz or 60 Hz	50 Hz or 60 Hz	50 Hz or 60 Hz
Welding Die Configuration	Rectangular	Rectangular	Rectangular	Circular	Circular
	2 Grooves	2 Grooves	2 Grooves	2-3 Grooves	2-3 Grooves
Welder Mounting	4 Wheels	4 Wheels	4 Wheels	Stationary	Stationary

## Dimensions & Weights

	AD-3.1	AD-4.1	AD-5.1	AD-6.1	AD-8.1
Welder-Across Front	137cm	147cm	157cm	216cm	216cm
Welder-Dimensions Depth	76cm	91cm	91cm	102cm	102cm
Welder-Overall Height	132cm	137cm	137cm	216cm	216cm
Welding Die Height	109cm	109cm	109cm	112cm	112cm
Welder Weight	650kg	700kg	800kg	2300kg	2500kg

## Standard Features

- Rugged construction
- Low maintenance costs
- Dual-stage upset mechanism
- Heavy-duty straight slide movable headpiece
- Dual foot-controlled clamping mechanism
- Electronic weld heat selection for precision
- Self-sustained safety control circuits
- Four-piece welding die set with hard inserts to prevent slippage

## Optional Features

- Machinist vise with mounting bracket
- Anneal function
- Pneumatically operated shear for stranded conductor

**MODEL AD-10:**  
Weld Up To 5000MCM or 2500mm<sup>2</sup>  
Contact Micro-Weld for Complete Details  
& Specifications

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