



**FROM PELLET TO PART**  
YOUR PARTNER  
FOR PRODUCTIVITY  
AND SUSTAINABILITY



# PROWELD MICRO-WELDING SYSTEM

**RoHS/WEEE compliant micro-welding system for precision mold repair.**

## ProWeld Micro-Welding System

As an essential resource to thousands of customers around the globe, DME is diligent in making certain its products are compatible in every region of the world. That's why every component within the Pro-Weld system satisfies all international compliances. This included RoHS (Restriction of Hazardous Substances) that prohibits or restricts the use of six potentially harmful materials in electronic equipment, and WEEE (Waste Electrical and Electronic Equipment) that requires equipment made after August 2005 to be returned to the manufacturer and recycled, rather than just "thrown away."



SPECIFICATIONS	
Input Voltage	120 VAC
Consumable Power	600 VA
Output Power	700 W
Output Voltage	0-9V
Output Current	0-1100Amps
Control System	SCR Switching System
Auto Timer On	0.5 sec.
Dimension (inches)	6.5 W x 17.75 D x 16 H
Weight	62 lbs.

## Standard Equipment

Complete ProWeld system includes: *(Dimensions in millimeters)*

ITEM NO.	DESCRIPTION
UMW0001	Power pack with welding cord, grounding cord and plate, power cord, foot switch and all accessories listed below
UMW0002	N51 - Standard SKH-51 steel powder (40 grams) (63Rc; for D2/M2/S7 steels)
UMW0003	N80 - Standard NAK80 steel powder (40 grams) (38-40 Rc; for P20/P21 steels)
UMW0004	NAK80 - Standard steel sheets (10 sheets, 0.1Tx5Wx100L) (38-40 Rc; for p20/p21 steels)
UMW0005	NTA1 - Ni alloy sheet (10 sheets, 0.1Tx30Wx70L) (135HV; for all steels)
UMW0006	NTA2 - Ni alloy sheet (10 sheets, 0.2Tx30Wx70L) (135HV; for all steels)
UMW0009	Magnetic Electrode (2 dia. x 50 L)
UMW0010	Magnetic Electrode (3 dia. x 50 L)
UMW0011	Magnetic Electrode (4 dia. x 60 L)
UMW0012	Magnetic Electrode (4 dia. x 50 L)

ITEM NO.	DESCRIPTION
UMW0013	Standard electrode (2 dia. x 50L)
UMW0014	Standard electrode (3 dia. x 50L)
UMW0015	Standard electrode (4 dia. x 50L)
UMW0016	Standard electrode (1.2T x 5W x 35L)
UMW0017	Standard electrode holder (black)(used with UMW0015)
UMW0018	Magnetic electrode holder (black) (used with UMW0011 and UMW0012)
UMW0019	Standard electrode holder (black) (used with UMW0016)
UMW0020	Standard electrode holder (black) (used with UMW0013)
UMW0021	Standard electrode holder (black) (used with UMW0014)
UMW0022	Standard electrode holder (brown) (used with UMW0009 and UMW0010)



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## REPLACEMENT CORDS

ITEM NO.	DESCRIPTION
P-501	Welding Cord
P-502	Power Cord

## WELDING MATERIAL: POWDER

ITEM NO.	WELDING MATERIALS	JAPANESE MOLD STEEL	QUANTITY	HARDNESS ROCKWELL C	U.S.MOLD STEEL EQUIVALENT
UMP0067	N-11	SKD-11	40 grams	Rc 50-60 Min.	A2, D2
UMP0072	N-38	HMP38	40 grams	Rc 30 Max.	All Die Steels, 420 SS (Prehardened)
UMP0073	N-39	PD555	40 grams	Rc 50-52	STAVAX
UMP0060	N-40	Ni Cr Alloy	40 grams	Rc 36-42	All Die Steels
UMP0062	N-50	Ni Alloy	40 grams	Rc 47-53	All Die Steels
UMP0068	N-61	SKD61	40 grams	Rc 40-53 Max.	H13, 420 SS
UMP0063	N-13	Ni Alloy	40 grams	Rc 10-15	All Die Steels
UMP0061	N-90	Ni Alloy	40 grams	Rc 16-20	All Die Steels
UMP0071	N-55	NAK55	40 grams	Rc 38-41	P21

## WELDING MATERIAL: SHEET (DIMENSIONS IN MILLIMETERS)

ITEM NO.	WELDING MATERIALS	JAPANESE MOLD STEEL	QUANTITY	HARDNESS ROCKWELL C	U.S.MOLD STEEL EQUIVALENT
UMA0001	NT-6		10 - 0.2T x 5W x x100L	Rc 30	All Mold Steels
UMA0054	NS-1	SS Alloy	10 - 0.1T x 30W x x70L	Rb 90	All Mold Steels
UMA0055	NS-2	SS Alloy	10 - 0.2T x 30W x x70L	Rb 90	All Mold Steels
UMD0102	HPM-50	HPM50	10 - 0.2T x 5W x x100L	Rc 38-40	P21 Improved
UMD0107	HPM-38	HMP38	10 - 0.2T x 5W x x100L	Rc 30-33	420SS
UMD0104	STAVAX	STAVAX	10 - 0.2T x 5W x x100L	Rc 50-52	STAVAX, 420SS
UMD0101	HPM-2	SCM440, IMPAX, HPM-2	10 - 0.2T x 5W x x100L	Rc 30-50	P20
UMD0103	MAS1		10 - 0.2T x 5W x x100L	Rc 50-53	P20
UMD0106	NAK55	NAK55	10 - 0.2T x 5W x x100L	Rc 38-40	P21

## WELDING MATERIAL: WIRE

ITEM NO.	WELDING MATERIALS	JAPANESE MOLD STEEL	QUANTITY	HARDNESS ROCKWELL C	U.S.MOLD STEEL EQUIVALENT
UMA0056	S2	SS Alloy	1 - 0.2 dia. x 5m	Rb 90	All Mold Steels
UMA0057	S3	SS Alloy	1 - 0.3 dia. x 5m	Rb 90	All Mold Steels
UMA0058	S4	SS Alloy	1 - 0.4 dia. x 5m	Rb 90	All Mold Steels
UMA0059	S5	ss Alloy	1 - 0.5 dia. x 5m	Rb 90	All Mold Steels



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