

2018 Product Catolog

RESISTANCE

WELD HEADS

WELD ATTACHMENTS







PULSE ARC/MICRO TIG

LASER

ACCESSORIES











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PULSE ARC / MICRO TIG WELDERS

Orion 250i² Welder Orion 250 i² Welding Power Supply, (welder, swing arm,

microscope and all accessories. come in one box).

Orion 200i² Welder Orion 200 i² Welding Power Supply, (welder, swing arm,

microscope and all acc. come in one box).



Orion 250s Arm Orion 250s Micro Pulse Arc Welder with Free-Floating Microscope

Package (Orion Arm)

(2 boxes)



Orion 250s ADL Orion 250s Micro Pulse Arc Welder & Darkening Lens Package

(2 boxes)



Orion 150s Arm Orion 150s Welding Power Supply with Swing Arm

(2 boxes)



Orion 150s ADL (2 boxes)

Orion 150s Welding Power Supply with Darkening Lens





PART NUMBER	DESCRIPTION	PRICE (USD)	PRODUCT PICTURE
Orion 100c Arm	Orion 100c Swing Arm Microscope Package and Accessories (2 boxes)		D) Orine
Orion 100c ADL	Orion 100c Darkening Lens Package and Accessories (2 boxes)		Order
Orion mPulse 30 Mounted	Orion mPulse 30 joule pulse-arc welder with microscope and power supply mounted on top		
Orion mPulse 30 Unmounted	Orion mPulse 30 joule pulse-arc welder with microscope Unmounted		
Orion mPulse 30 Upgraded ADL	Orion mPulse 30 joule pulse-arc welder with upgraded auto-darkening lens		



Orion mPulse 30 Basic ADL Orion mPulse 30 joule pulse-arc welder with auto-darkening lens



Orion mPulse 30 Arm w/Cradle Orion mPulse 30 arm upgrade with built in power supply cradle. Includes RJ45 cable.



Earring Post Welder 50p

System for welding posts to work pieces



PULSE ARC / MICRO TIG WELDER ELECTRODES

Orion EL 1.5 Tungsten Electrode Tips (15) 1.5mm.

Orion EL 1.0 Tungsten Electrode Tips (15) 1.0mm.

Orion EL 0.5 Tungsten Electrode Tips (15) 0.5mm.

Orion EL 1.0/0.5 Tungsten Electrode Tips 1.0mm and 0.5mm (10 of each).





PULSE ARC / MICRO TIG WELDER ACCESSORIES

Orion Collet 1.5mm

1.5mm Orion Collet

Orion Collet 1.0mm

1.0mm Orion Collet

Orion Collet 0.5 mm

0.5 mm Orion Collet



Dremel tool for the Diamond wheels, to sharpen the

Orion electrodes



Dremel Disks

5 pack of Diamond Dremel Disks



Orion GB Pack

Fiber Glass Brushes for cleaning weld spot area

Sold as a pack of 5



Orion ADL

Orion Darkening Lens Stand (can be paired with any Orion)

microscope and all acc. come in one box).



Orion Threaded Stylus

Pulse Arc Welding Stylus. Handpiece for Use with Orion Welders



Orion Snap In Stylus

Pulse Arc Welding Stylus. Handpiece for Use with Orion Welders





	Suistoile	
PART NUMBER	DESCRIPTION	PRICE (USD) PRODUCT PICTURE
Orion Stylus Extension Threaded	Pulse Arc Welding Stylus Extension for threaded models	
Orion Stylus Extension Snap in	Pulse Arc Welding Stylus Extension for Snap In models	
AGR 2	Precision Argon Gas Regulator, with quick connector. Made in USA	
AGR 1	Argon Gas Regulator Made in China	
AGR-Inline	Orion Inline Low Pressure Argon Regulator. (2 boxes)	
Orion Wire Kit A	Includes: 12 in. of 26 gage Sterling Silver wire, 6 in. of 26 gage 14k Yellow Gold wire, 6 in. of 26 gage 14k White Gold wire, and 1 gem guard kit.	
Orion Gem Guard	SHG Gem Guard – 2 vial set	Custo State Custo



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PART NUMBER	DESCRIPTION	PRICE (USD)	PRODUCT PICTURE
Orion Weld Att. Pkg.	Orion Pulse Arc Weld Attachment Package. Includes: *Orion Pulse Arc Small Flat Peaked Pliers *Orion Tack Small Double Pole Tweezers *Orion Tack+ *Orion THP+		
Orion Crosslock	Pulse Arc Cross Lock Tweezer		
Orion Brass Lined Pliers	Orion Brass Lined Pliers		
Orion Jump Ring Pliers	Jump Ring Pliers.		
Orion Double Pole	Orion Tack Small Double Pole Tweezers.		
Orion SPHP LP	Single Probe Hand Piece - Low Power. 1/4" dia brass shank accepts 1/16" (for Tungsten) or 2mm.		
Orion DPHP LP	Dual Probe Hand Piece – Low Power, 1/4" dia brass shank with10 AWG cabling, accepts 1/16" copper or 2mm tungsten electrodes (1 pair copper electrodes included).		



PART NUMBER	DESCRIPTION	PRICE (USD)	PRODUCT PICTURE
THP-A Orion THP+	Tweezer Hand Piece. 10 AWG Cabling (3 Feet) with ring Connectors for use with Sunstone welders. Orion Tweezer Hand Piece. 10 AWG Cabling (6 Feet) with Spade Connectors for use with Orion Welders.		
Orion Tack+	Tack Welding Cables with + and – Alligator Clips. 10 AWG Cabling (6 Feet) with Spade Connectors for use with Orion Welders.		
Orion Tack Alligator Clip	Orion Tack Alligator Clip. 10 AWG cables (3 feet long), with spade terminals. For use with an Orion.		



LASER WELDERS

LZR 140 140 Joule laser welder, with built in Camera.

LZR 100 100 Joule Laser Welder, with built in Camera.

LZR 60 60 Joule laser welder, with built in Camera.



LZR Pedastol Motorized Pedastol for Benchtop Laser Welder



LZR Combo 200 200J fiber laser welder with articulating arm



LZR 100A Automated laser welding system – 100 Joule

LZR 140A Automated laser welding system – 140 Joule





LASER ENGRAVERS/CUTTERS

LZR ENG 100 3D	100 Watt Laser Engraver for 3D parts.
LZR ENG 70 3D	70 Watt Laser Engraver for 3D parts.
LZR ENG 50 3D	50 Watt Laser Engraver for 3D parts.
LZR ENG 40 3D	40 Watt Laser Engraver for 3D parts.
LZR ENG 30 3D	30 Watt Laser Engraver for 3D parts
1 7R FNG 20 3D	20 Watt Laser Engraver for 3D parts



LZR ENG 100	100 Watt Laser Engraver.
LZR ENG 70	70 Watt Laser Engraver.
LZR ENG 50	50 Watt Laser Engraver.
LZR ENG 40	40 Watt Laser Engraver.
LZR ENG 30	30 Watt Laser Engraver.
LZR ENG 20	20 Watt Laser Engraver.



LZR ENG 20 Nano	20 Watt Laser Engraver with manual z-axis movement
LZR ENG 10 Nano	10 Watt Laser Engraver with manual z-axis movement



LZR ENG Acc. Pkg.	XY clamp, Rotary Ring Clamp, Vacuum extractor,
LZR XY Clamp	XY Clamp for engraving.
LZR Ring Clamp	Rotary ring clamp for engraving on the inside and the outside of rings.
LZR ENG Vacuum	Vacuum extractor for LZR Engraver
LZR Vacuum Basic	Compact simple Vacuum extractor for LZR Engraver



DC - RESISTANCE WELDERS

Linear DC Linear DC Welding power supply, with 12v MAC valve

included, for ACS use.

Intuitive touch screen, updateable, 10-2500 amps,

0.01-500ms timing,



CD DUAL PULSE - RESISTANCE WELDERS

CD1100DP 1100ws Dual Pulse Industrial CD Spot Welder.

CD1100DP-RS 1100 watt-second capacitive discharge spot welder with Roll

Spot software.

CD1000DP 1000ws Dual Pulse Industrial CD Spot Welder.

CD1000DP-RS 1000 watt-second capacitive discharge spot welder with Roll

Spot software.



CD600DP 600ws Dual Pulse Industrial CD Spot Welder.

CD600DP-RS 600 watt-second capacitive discharge spot welder with Roll Spot

software.

CD400DP 400ws Dual Pulse Industrial CD Spot Welder.

CD400DP-RS 400 watt-second capacitive discharge spot welder with Roll Spot

software.

CD200DP 200ws Dual Pulse Industrial CD Spot Welder.

CD200DP-RS 200 watt-second capacitive discharge spot welder with Roll Spot

software.



CD SINGLE PULSE - RESISTANCE WELDERS

CD200SPM 200ws Single Pulse Research and Light Production Resistance

Spot Welder.

CD100SPM 100ws Single Pulse Research and Light Production Resistance

Spot Welder.





AC - RESISTANCE WELDERS

AC 15.0 kVA 15kVA, 460–480v AC Welding Power Supply.

AC 5.0 kVA 5.0kVA, 220–240v AC Welding Power Supply.



AC 2.2 kVA 2.2kVA, 220–240v AC Welding Power Supply.





RESISTANCE WELDING - WELD HEADS

WH1187A HF WH1187 HF, High Force Opposed, MAC Valve Air–Actuated Weld

Head with foot pedal, trigger cable, 1 AWG Welding Cables, 3/16"

electrodes.



WH1125A WH1125A Opposed, MAC Valve Air-Actuated Weld Head with foot

pedal, trigger cable, 1 AWG Welding Cables, 1/8" electrodes.

WH1125M WH1125M Opposed, Mechanical Weld Head with foot pedal, trigger

cable, 1 AWG Welding Cables, 1/8" electrodes.



WH1250 EL Upgrade Opposed Weld Head 1/4" Electrode Holders and Electrodes.

WH2125A WH2125A series/parallel, MAC Valve Air-Actuated Weld Head

with foot pedal, trigger cable, 1 AWG Welding Cables, Glydcop

electrodes (1 pair). Includes a base plate.

WH2125M WH2125M series/parallel, Manually-Actuated Weld Head with

foot pedal, trigger cable, 1 AWG Welding Cables, Glydcop

electrodes.



WH2250 EL Upgrade Parallel Weld Head 1/4" Electrode Holders and Electrodes.

MWH3000 Opposed Opposed Gap Micro Weld Head. Ranges between 80–3000gF. 5,250

Manually Actuated. Includes Swing Arm & Microscope, 5x/10x

Magnification with Light Source.



MWH3000 Parallel Parallel Gap Micro Weld Head. Ranges between 80–3000gF.

Manually Actuated. Includes Swing Arm & Microscope, 5x/10x

Magnification with Light Source.





RESISTANCE WELDING - HAND ATTACHMENTS

PG1/2 The PG1/2 is the smallest single side gun. It can be fitted with a

straight or 90degree tip. Triggered with a foot pedal. Accepts

threaded electrodes.

PG1 The PG1 is the smallest single side gun. It can be fitted with a

straight or 90 degree tip and has a built in switch. Accepts

threaded electrodes.



PG2 Pistol Grip Hand Piece with Button Trigger. Accepts threaded

electrodes.



PG2W The PG2W is a water cooled hand piece. Accepts threaded

electrodes. Industrial uses.

PG3W The PG3W is water cooled hand piece. Accepts compression

electrodes. Heavy duty industrial uses.



PW Chiller Chilling unit for use with water cooled hand pieces



PG4 The PG4 gun is designed as a series welder. This gun will

apply 2 spots simultaneously. Accepts compression electrodes.



PGSM The PGSM miniature pliers, uses 1/8" electrodes.





PART NUMBER	DESCRIPTION	PRICE (USD) PRODUCT PICTURE
EL PG Threaded	3/8" Diameter, Tapered Copper Electrode (threaded) for PG2 and PG1.	
EL PG Wheel Threaded	2" Copper Wheel electrode, threaded fitting style.	
EL PG Wheel Compression	2" Copper Wheel electrode, compression fitting style.	
EL PG Adapter 125	Threaded adapter for the Poke hand pieces, accepts a 1/8th inch electrode.	
EL PG Adapter 187	Threaded adapter for the Poke hand pieces, accepts a 3/16th inch electrode.	Alleman
PASP2	Pistol grip, pressure actuated single probe with adjustable pressure.	
PASP HP	Pressure-Actuated Single Probe Hand Piece Attachment with Large Alligator Clip for simple setup.	
PASP HP RS	Pressure-Actuated Single Probe Hand Piece Attachment (with Large Alligator Clip) for Roll Spot welding. Accepts 1/4" dia electrodes, such as EL-Roll(included).	
EL-ROLL	Pressure-Actuated Single Probe Hand Piece Wheel	



PART NUMBER	DESCRIPTION	PRICE (USD)	PRODUCT PICTURE
SPHP SPHP LP SPHP MP SPHP HP	Single Probe Hand Piece Single Probe Hand Piece – Low Power. 1/4" dia brass shank accepts 1/16'(for Tungsten) or 2mm. Single Probe Hand Piece – Medium Power, 5/8" dia brass shank with 4 AWG cabling, accepts 1/8' electrodes. Single Probe Hand Piece – High Power. 7/8" dia brass shank accepts 3/16' electrodes.		
DPHP Micro	Micro Micro Welding Hand Piece for Use with DC Welders. Includes one thermal compression bonding hand piece with one MEL-TCB-FL electrode. *** For use with thermocompression electrodes.		
DPHP LP DPHP MP DPHP HP	Dual Probe Hand Piece – Low Power, 1/4" dia brass shank with 8 AWG cabling, accepts 1/16" copper or 2mm tungsten electrodes (1 pair copper electrodes included). Dual Probe Hand Piece – Medium Power 5/8" dia brass shank with 4 AWG cabling, accepts 1/8" electrodes (1 pair copper electrodes included). Dual Probe Hand Piece – High Power 7/8" dia brass shank with 1 AWG cabling, accepts 3/16" electrodes (1 pair copper electrodes included).		
Hand Piece Package	Hand Piece RWMA II Package includes Sunstone's DPHP, SPHP, & THP-A weld attachments.		



PART NUMBER	DESCRIPTION	PRICE (USD)	PRODUCT PICTURE
PTHP LP EL PTHP LP 187	Pressure-Actuated Tweezer Hand Piece: Low Power. 1/8" diameter Electrodes. * 3/16" diameter upgrade available upon request		
EL125RWMA-ANG EL187RWMA-ANG EL187MOLY-ANG	3" Copper (Angled) Electrodes, 1/8" diameter (1 pair). 3" Copper (Angled) Electrodes, 3/16" diameter (1 pair). 3" Molybdenum (Angled) Electrodes, 3/16" diameter (1 pair).		
PTHP MP PTHP HP	Pressure-Activated Tweezer Hand Piece: Moderate Power. 3/16" dia. Electrodes Pressure-Activated Tweezer Hand Piece: High Power. 3/16" dia. Electrodes		
THP-P	Pneumatic Tweezer Hand Piece.		sunstone
ACS	Air Control System – Regulates Compressed Air Functionality for Pneumatic Weld Attachments, and Controls Shielding Gas such as Argon.		Sunstone ©



RESISTANCE WELDING - ELECTRODES

EL125BATT 2.5" Battery Style Copper GlidCop Electrodes, 1/8" diameter (1

pair).

EL250BATT 2.5" Battery–Style Copper Glidcop Electrodes, 1/4" diameter (1

oair).



EL062RWMA 2" RWMA II Electrodes, 1/16" diameter (1 pair).

EL125RWMA 2" RWMA II Copper Electrodes, 1/8" diameter (1 pair).

EL125RWMA3 3" RWMA III Electrodes, 1/8" diameter (1 pair).

EL187RWMA 2" Copper Electrodes, 3/16" diameter (1 pair).

EL250RWMA 2" Copper Electrodes, 1/4" diameter (1 pair).

EL0625TUNG 2" Pure Tungsten Electrodes, 1/16" diameter (1 pair).

EL125TUNG 2" Pure Tungsten Electrodes, 1/8" diameter (1 pair).

EL187TUNG 2" Pure Tungsten Electrode, 3/16" diameter (1 Pair).



EL125TUNG7 7" Pure Tungsten Electrodes, 1/8" diameter (1 pair).

EL187TUNG7 7" Pure Tungsten Electrodes, 3/16" diameter (1 Pair).



EL125MOLY 2" Molybdenum Electrodes, 1/8" diameter (1 pair).

EL187MOLY 2" Molybdenum Electrodes, 3/16" diameter (1 pair).



EL Honeycomb Flat Honeycomb Tack Electrode Flat.

EL Honeycomb Radius Honeycomb Tack Electrode Radiused.





PART NUMBER	DESCRIPTION	PRICE (USD)	PRODUCT PICTURE
MEL AG	Square, Adjustable Gap Glidcop Micro Electrodes for Micro Weld Head. 0.015" x 0.025" Face Tip (1 pair). Best for fine, Non coated, resistive wires.		
MEL AMO	Square, Adjustable Gap Molybdenum Micro Electrodes for Micro Weld Head. 0.015" x 0.025" Face Tip (1 pair) – Best for fine, Non coated, conductive wires.		
MEL BMO	Square, Fixed/Bonded 0.0015" Gap Molybdenum Micro Electrodes for Micro Weld Head. 0.010" x 0.010" Face Tip (1 pair). Best for very fine, Non coated, conductive wires.		
MEL TCB .25mm²	Micro, thermocompression bonded electrode with a 0.25mm x 0.25mm flat face, 5 electrode pack.		
MEL TCB FL	1/8" Tungsten Flat Thermal Compression Bonded Micro Electrodes (5 Pair). For use with fine magnet wires, using low voltages during welds. Medium range uses.		
MEL TCB SL	1/8" Tungsten Slant Thermal Compression Bonded Micro Electrodes (5 Pair). For use with fine magnet wires, using low voltages during welds. Designed to weld and 'cut' the wire simultaneously.		
MEL TCB SmFl	Micro, Thermocompression electrode with a small, flat face: 0.4mm x 0.5mm. Perfect for small magnet wires. (5 electrode pack).		
MEL TCB SY	1/8" Tungsten Symmetrical Thermal Compression Bonded Micro Electrodes (5 Pair). For use with very fine magnet wires, using very low voltages during welds. Very precise.		
MEL TCB U	1/8" Tungsten U-Shaped Thermal Compression Bonded Micro Electrodes (5 Pair). For use with larger magnet wires, using higher voltages during welds.		



TERY WELDING SYSTEMS

BWS High Power High Power Battery Welding System

BWS Standard Standard Battery Welding System

BWS Simple Simple Battery Welding System.



BATTERY WELDING - COPPER TAB SYSTEM

Orion EV Welding System. Includes Orion 250i² welder and WHEV Orion 250i2 EV System

Pro 1 weld head, electrode starter kit, a Roll of SC500N10 Copper,

AGR-Inline, AGR2 & 1/4" argon tube splitter fitting.



Orion 250i2 EV Arm Pkg. Orion Swing Arm Microscope, Orion stylus & all standard Orion 250i2 accessories.





BATTERY WELDING - CNC SYSTEMS

WHEV CNC

Includes all of the parts needed to complete the Orion 250i2EV system, that don't come included with a normal Orion 250i2. WHEV weld head, Steel collet nut, Brass nose cone with grounding cable, RJ11 connection cord, Base slide plate, Lower base and vertical upright that the WHEV head rides on, 2 black pressurized air hoses, 12v MAC valve, Argon splitter.



CNCC

CNC Cartesian Robot and controls for automated Orion EV Welding System w/pendant (Robot only, Weld Head not included)

CNCC-6050 - 600mm x 500mm x 100mm Travel CNCC-5050 - 500mm x 500mm x 100mm Travel CNCC-4040 - 400mm x 400mm x 100mm Travel CNCC-3030 - 300mm x 300mm x 100mm Travel



CNCJ

CNC Robot and controls for automated Orion EV Welding System w/pendant (Robot only, Weld Head not included)

CNCJ-5160 - 510mm x 600mm x 150mm Travel CNCJ-5151 - 510mm x 510mm x 150mmTravel CNCJ-4040 - 400mm x 400mm x 150mmTravel CNCJ-3032 - 300mm x 320mm x 100mm Travel CNCJ-2020 - 200mm x 200mm x 50mm Travel



CNCP

CNC Table and controls for automated Orion EV Welding System

CNCP-3750 - 37" x 50" x 5" Travel CNCP-2550 - 25" x 50" x 5" Travel CNCP-2537 - 25" x 37" x 5" Travel CNCP-2525 - 25" x 25" x 5" Travel





BATTERY WELDING - ACCESSORIES

SNPSP Nickel Precut Sample Pack.

SN0625N34 0.08L 0.0625" wide x 0.003" thick x 0.08" length pre-cut tabs.

SN125N34.8L 0.125"w x 0.003"t x 0.80"L pre-cut nickel strip 250pc.

SN125N54.75L 0.125"w x 0.005"t x 0.75"L pre-cut nickel strip 250pc.

SN250N54 1.125L 0.25"w x 0.005"t x 1.125"L pre-cut nickel strip 250pc.

SN375N54 1.125L 0.375"w x 0.005"t x 1.125"L pre-cut nickel strip 250pc.

Custom sizes available Custom Nickel

SN Spooled Sample Nickel Spool Sample Pack.

SN0625N34 0.0625" x 0.003" Nickel Strip, 25 ft. spool.

SN125N34 0.125"w x 0.003"t x 25"L spooled nickel strip.

SN125N54 0.125"w x 0.005"t x 25"L spooled nickel strip.

SN250N54 0.250'w x 0.005"t x 25"L spooled nickel.

SN375N54 0.375" x 0.005" x 25"L spooled nickel strip.

Custom Nickel Custom sizes available

Spooled Copper

Shrink Wrap

Copper Spool

SC500N10 0.500"w x 0.010"t spooled copper strip.

25 ft. spool.

Fish Paper 8.75" x 11.75" Adhesive Fish Paper (10 sheets) 0.010 thick.

100's of options available. Please inquire for prices.

Specifications needed: diameter of tube, thickness of wall, color

and length.













PART NUMBER	DESCRIPTION	PRICE (USD) PRODUCT PICTURE
TM6.8KR	Battery Pack Thermistor — Milwaukee Hitachi Hilti	
TM10KA	Battery Pack Thermistor — Snap-On	
TM10KARB	Battery Pack Thermistor — Dewalt Rigid Makita	

RESITANCE WELDING - ACCESSORIES

ESHC External Switch Hookup Cable.



Foot Switch – HDMI Foot Switch with HDMI connector for welders.

Foot Switch 3 Pin Foot Switch 3 Pin.



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