

TECHNOLOGY FOR THE WELDER'S WORLD

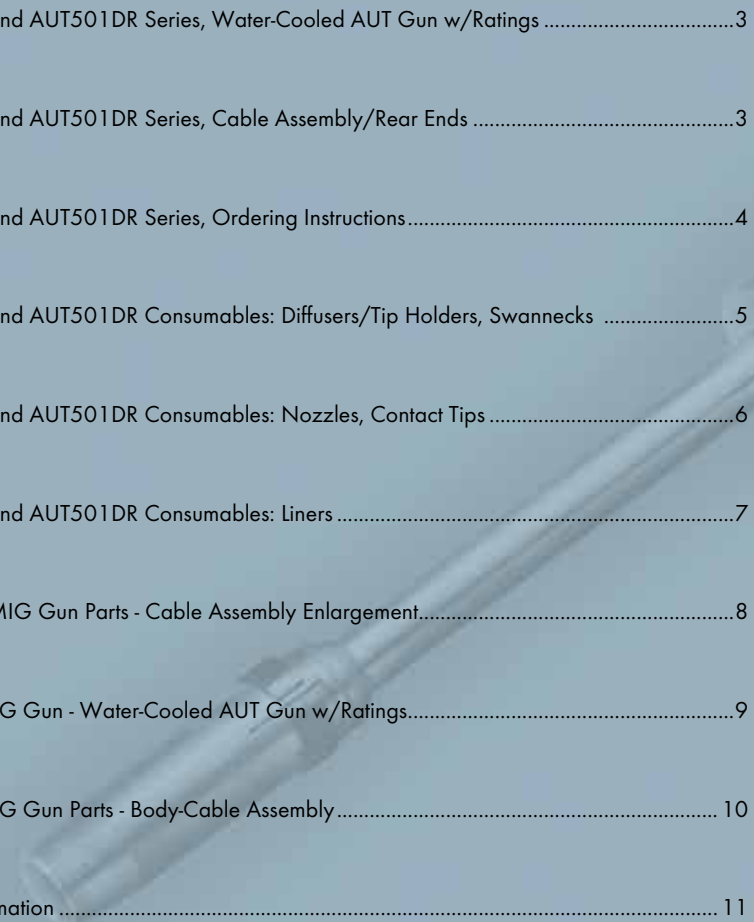
AUT Water-cooled Automatic Torches



www.binzel-abicor.com

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AUT501D/AUT501DR Series Water-Cooled MIG Guns

Designed for Industrial durability. Ideal for automotive, shipbuilding, railroad, aircraft and off road equipment and construction.

AUT501D Rear Ends

- Euro-Quick or direct connect rear ends available.



AUT501DR

- Direct connect rear ends available.



AUT501D and AUT501DR Water-Cooled

AUT Type	Rating	DutyCycle (%)	Wire Size Inches	Wire Size Millimeters
AUT 501D/AUT 501DR	500 Amp Co2 / 450 Amp Mixed Gases	100%	.035"-.094"	0.9mm-2.4mm

Rated using power source with VDE standard volt/amp characteristic $[V=(Ax0.05)=14]$. When pulse welding, reduce rating by 35%.

AUT501D/AUT501DR Series Water-Cooled MIG Gun Ordering Information

AUT Series MIG Torches are available in various configurations based on neck bend, wire size, cable length and rear end connection. Refer to the detailed instruction below to determine the part number that best suits your requirements. If you have any questions, please contact Customer Service at 1.800.542.4867.

ORDERING INSTRUCTIONS FOR COMPLETE AUTOMATIC WATER COOLED

AUT 5

**TORCH MODEL
AMPERAGE**

TORCH MODEL

AUT - Automatic Water-cooled MIG Torch

AMPERAGE

5 - 500 Amp

CABLE LENGTH

- 30 - 3 Feet
- 40 - 4 Feet
- 50 - 5 Feet
- 60 - 6 Feet
- 70 - 7 Feet
- 80 - 8 Feet
- 90 - 9 Feet
- 10 - 10 Feet
- 12 - 12 Feet
- 15 - 15 Feet
- D - Direct Mount (No Cable Assembly)

NECK

- 18 - 180 Degree
- 22 - 22 Degree
- 45 - 45 Degree

15

**CABLE
LENGTH**

45

**SWANNECK
ANGLE**

S

NOZZLES

45

WIRE SIZE

E

BACK END

BACK END

- E - EURO (Not Available on Direct Mount)
- L - Lincoln
- T - Tweco 4/Lincoln 10
- M - Miller

WIRE SIZE

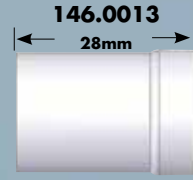
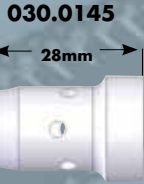
- 35 - .035"
- 45 - .045"
- 52 - .052"
- 62 - .062"

NOZZLES

- S - Slip-on

AUT501D/AUT501DR Water-Cooled MIG Guns

Consumables: Diffusers/Tip Holders/Swannecks



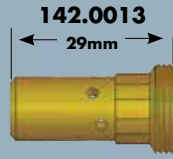
DIFFUSERS/INSULATOR

DESCRIPTION

PART NO.

Diffuser Standard
Diffuser Hi-Temp
Insulator Nozzle

030.0145
030.0037
146.0013



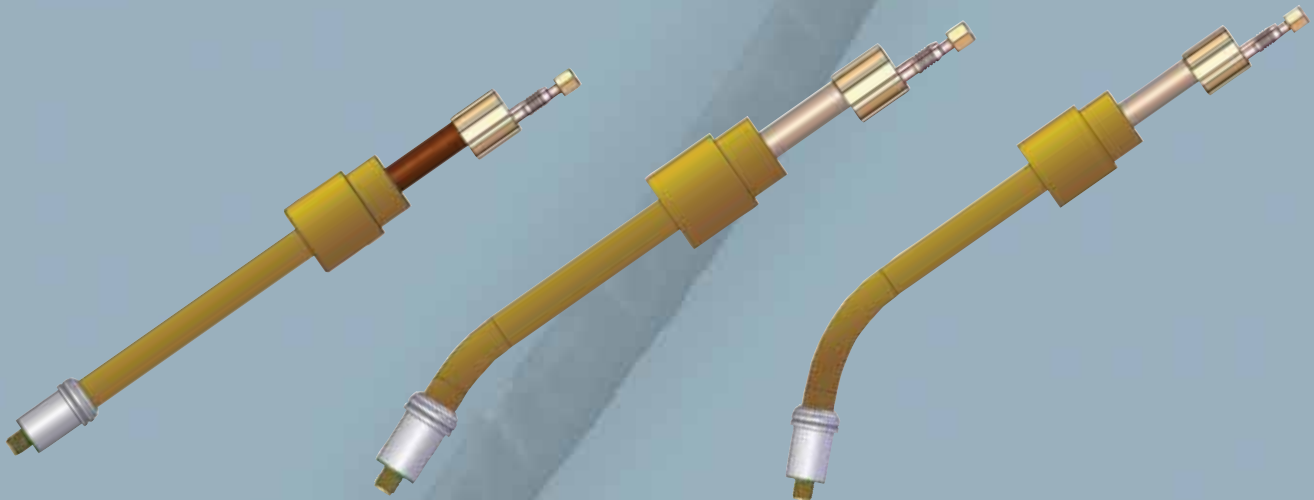
TIP HOLDERS

DESCRIPTION

PART NO.

Tip Holder M6 Spray Arc 501
Tip Holder M6 Short Arc 501
Tip Holder M8 Spray Arc 501
Tip Holder M8 Short Arc 501

142.0008
142.0013
142.0022
142.0027



SWANNECKS

DESCRIPTION

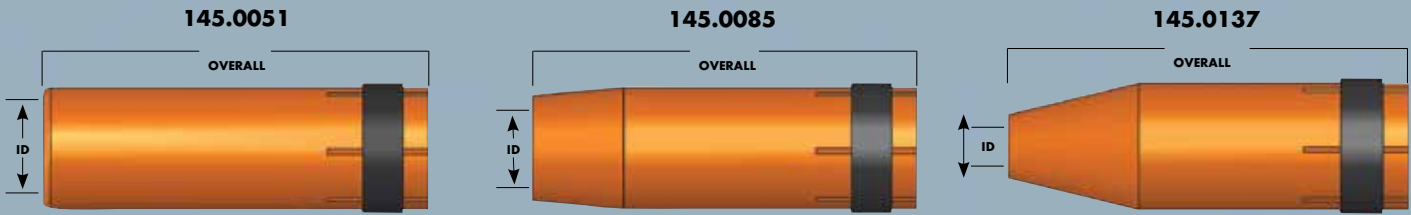
PART NO.

Swanneck 180 degree Chrome Nozzle Seat
Swanneck 22 degree Chrome Nozzle Seat
Swanneck 45 degree Chrome Nozzle Seat

934.9521.US
934.9522.US
934.9523.US

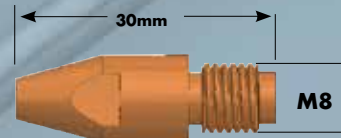
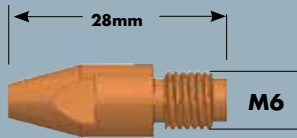
AUT501D/AUT501DR Series MIG-Guns

Consumables: Nozzles, Contact Tips



NOZZLES (packaged 5 per bag)

DESCRIPTION	ID	ID	OD	OD	LENGTH	LENGTH	PART NO.
	IN	MM	IN	MM	IN	MM	
Nozzle Cylindrical 501	13/16"	20mm	15/16"	24mm	3"	76mm	145.0051
Nozzle Conical STD 501	5/8"	16mm	15/16"	24mm	3"	76mm	145.0085
Nozzle Conical Small 501	9/16"	14mm	15/16"	24mm	3"	76mm	145.0132
Nozzle Conical HD 501	5/8"	16mm	15/16"	24mm	3"	76mm	145.0086
Nozzle Bottleform 501	5/8"	16mm	15/16"	24mm	3"	76mm	145.0148
Nozzle Conical Small 501	3/8"	10mm	15/16"	24mm	3"	76mm	145.0137
Nozzle Conical Small 501	7/16"	11mm	15/16"	24mm	3"	76mm	145.0139



CONTACT TIPS (packaged 25 per bag)

STYLE	INCH	METRIC	M6 (069)	M8 (262)
			PART NO.	PART NO.
CU Copper, Standard	.035	0.9	140.0169	140.0214
CU Copper, Standard	.040	1.0	140.0242	140.0313
CU Copper, Standard	.045	1.2	140.0379	140.0442
CU Copper, Standard	.052	1.4	140.0516	140.0533
CU Copper, Standard	.062	1.6	140.0555	140.0587
CU Copper, Standard	.078	2.0	140.0646	140.0653
CU Copper, Standard	.094	2.4	-	140.0677
CZ Copper Zirconium, Optional	.035	0.9	140.0172	140.0217
CZ Copper Zirconium, Optional	.040	1.0	140.0245	140.0316
CZ Copper Zirconium, Optional	.045	1.2	140.0382	140.0445
CZ Copper Zirconium, Optional	.052	1.4	140.0519	140.0536
CZ Copper Zirconium, Optional	.062	1.6	140.0558	140.0590
CZ Copper Zirconium, Optional	.078	2.0	-	140.0656
CZ Copper Zirconium, Optional	.094	2.4	-	140.0679
AL for Aluminum	.035	0.9	141.0004	141.0043
AL for Aluminum	.040	1.0	141.0006	141.0008
AL for Aluminum	.045	1.2	141.0082	141.0075
AL for Aluminum	.052	1.4	141.0019	141.0055
AL for Aluminum	.062	1.6	141.0020	141.0022
Not Shown Contact Tip Wrench			191.0001	191.0001

AUT501D/AUT501DR Series MIG Guns

122.9007



AUT501D LINERS FOR STEEL WIRES

PART NO.

Liner Steel 17' 035"-045"	122.9007
Liner Steel 17' 052"-062"	122.9058
Liner Steel 17' 078"-094"	122.9023
Liner Steel 28' 035"-045"	122.9012
Liner Steel 28' 052"-062"	122.9015

127.9001



AUT501D LINERS FOR STAINLESS WIRES

SPECIFICATIONS

PART NO.

Liner C-TFE 035"-045" 12'	for 10' gun	127.9001
Liner C-TFE 035"-045" 14'	for 12' gun	127.9002
Liner C-TFE 035"-045" 17'	for 15' gun	127.9003
Liner C-TFE 052"-062" 12'	for 10' gun	127.9004
Liner C-TFE 052"-062" 14'	for 12' gun	127.9005
Liner C-TFE 052"-062" 17'	for 15' gun	127.9006

126.9004



AUT501D LINERS FOR ALUMINUM

SPECIFICATIONS

PART NO.

Liner P-TFE RD 035"-045" 12'	for 10' gun	126.9004
Liner P-TFE RD 035"-045" 14'	for 12' gun	126.9005
Liner P-TFE RD 035"-045" 17'	for 15' gun	126.9006
Liner P-TFE YW 052"-062" 12'	for 10' gun	126.9007
Liner P-TFE YW 052"-062" 14'	for 12' gun	126.9008
Liner P-TFE YW 052"-062" 17'	for 15' gun	126.9009
Collet Plastic Liner 024"-045"		131.0001
Collet Plastic Liner 052"-078"		131.0002
O-Ring 3.5X1.5mm		165.0008
Liner Support (for plastic liners) Specify Feeder		129.xxxx
Wrench Contact Tip		191.0001

122.9064



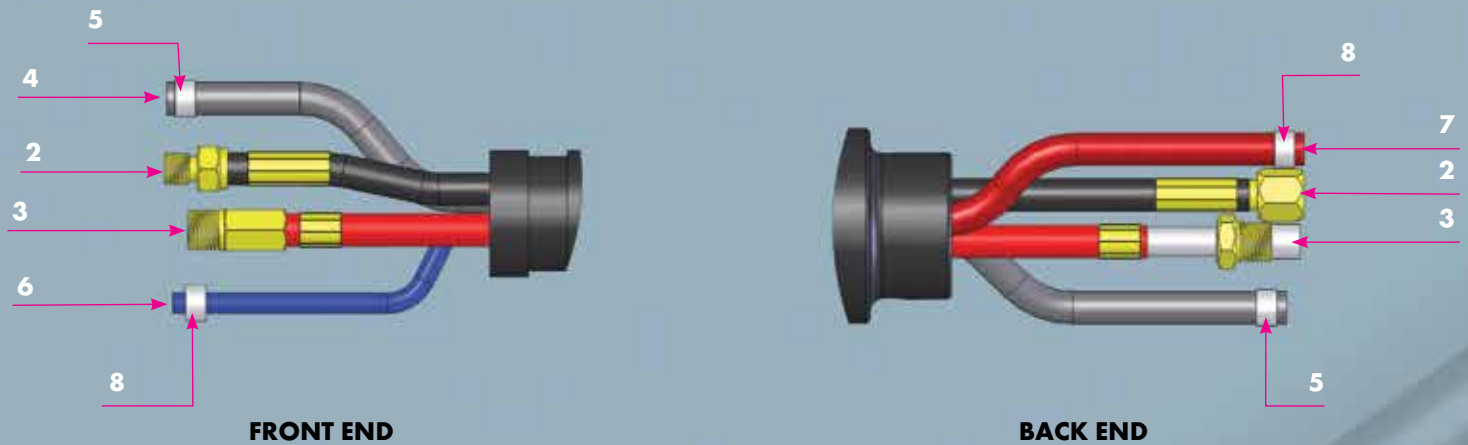
AUT501DR LINERS FOR STEEL WIRES

PART NO.

Liner Steel 3' 035"-045"	122.9064
Liner Steel 3' 052"-062"	122.9065
Liner Steel 3' 078"-125"	122.9066

AUT501D Series Water-Cooled MIG Guns

Body Cable Assembly (not to size)



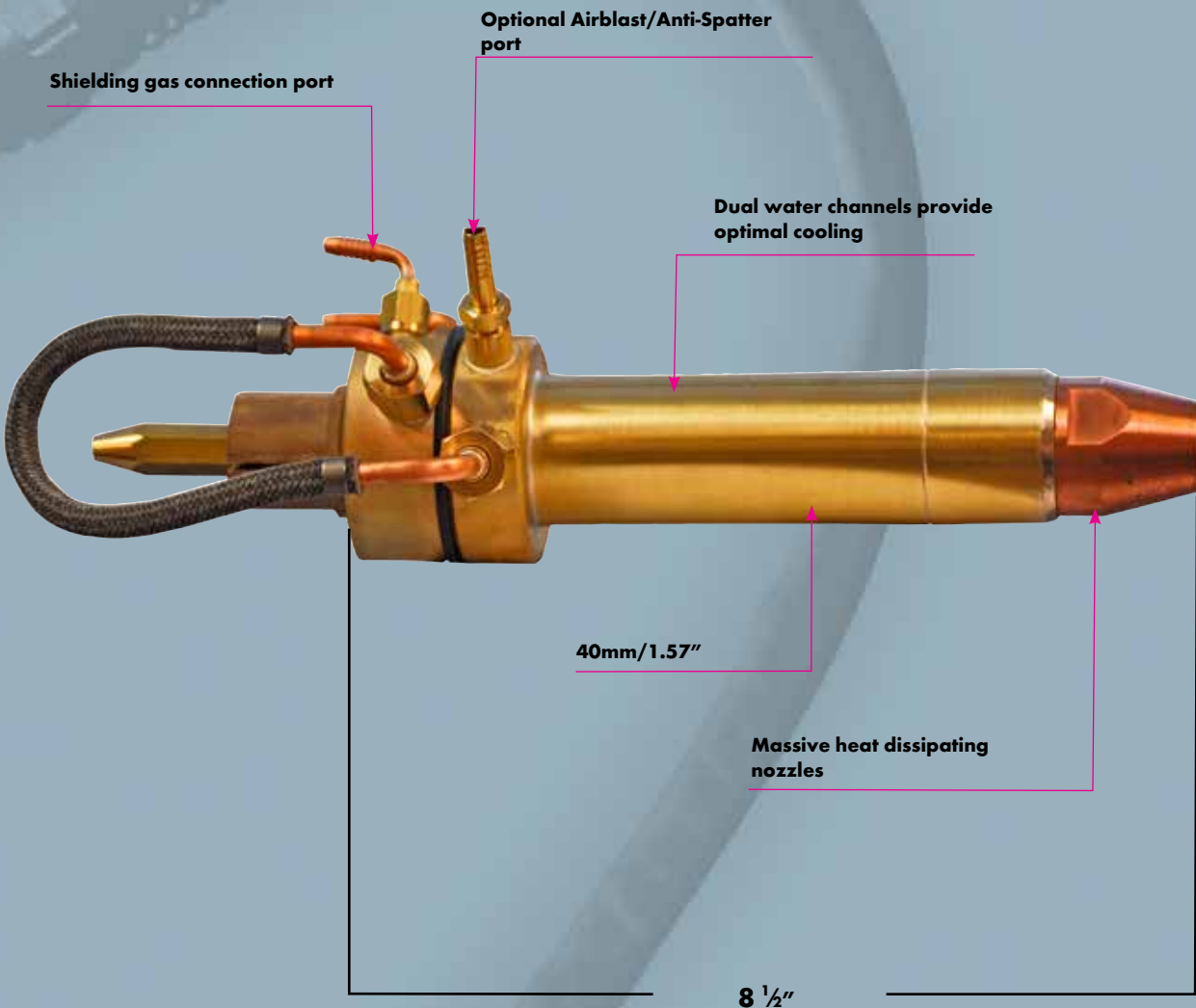
AUT501D Body Cable Assembly

ITEM NO.	DESCRIPTION	PART NO.
2	Power Cable	* CALL
3	Conduit	* CALL
4	Hose Gas Black 4.9x7.9mm	109.0040
5	Clamp Hose 8.7mm	171.9002
6	Hose Water Blue 5x8mm Bulk	103.0002
7	Hose Water Red 5x8mm Bulk	103.0079
8	Clamp Hose 9.5mm	171.9001

* Call the Product Department at 1.800.542.4867 for more information.

AUT750 Series Water-Cooled MIG Gun

The AUT750 is a compact, dual water-jacketed machine torch designed specifically to withstand exceedingly large amounts of reflected heat build-up. The two independent water cooling channels can be fed in series or parallel by omitting the interconnecting water hose.



AUT750 Water-Cooled

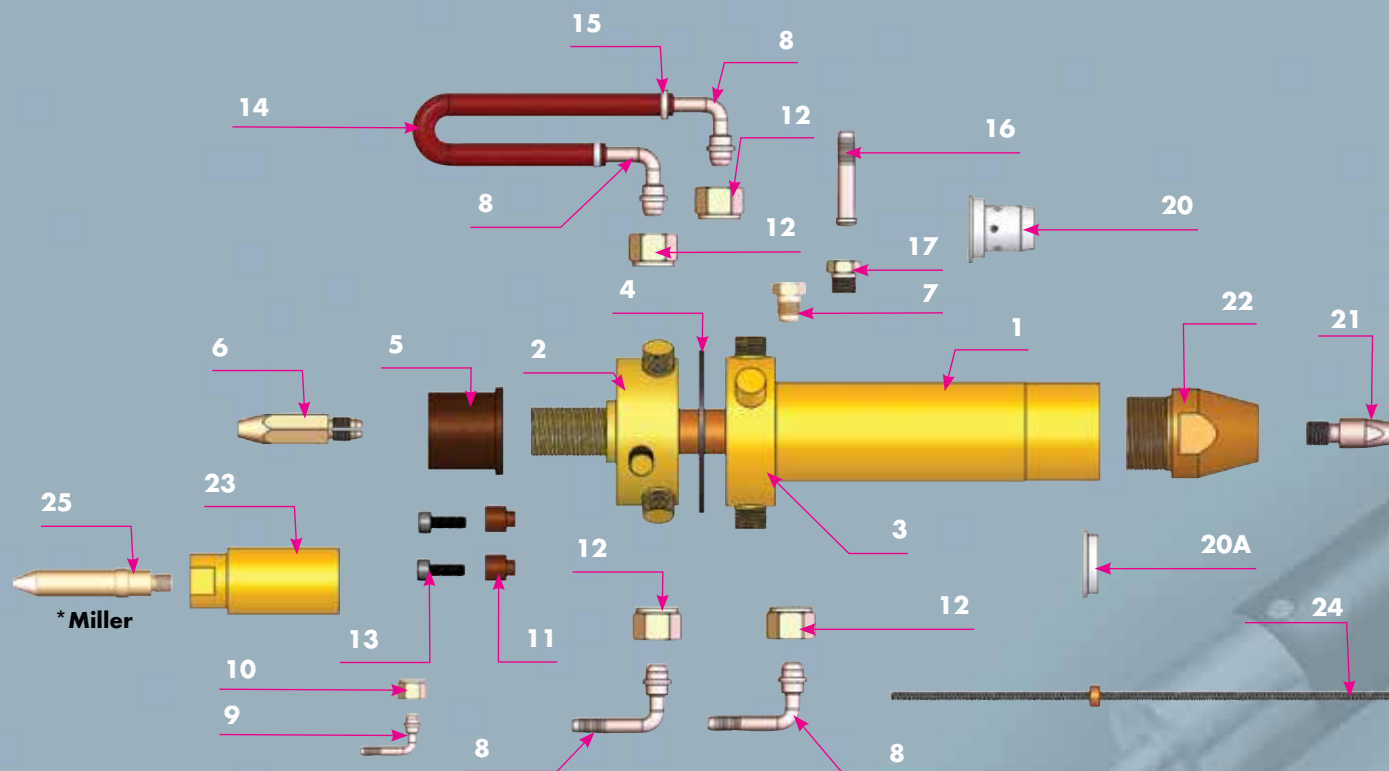
AUT Type	Rating	Duty Cycle (%)	Wire Size Inches	Wire Size Millime-
AUT 750	800 Amp Co2 / 750 Amp Mixed Gases	100%	.045"-1/8"	1.2mm-3.2mm

Weight: 4.66 lbs/2.11 kg

Rated using power source with VDE standard volt/amp characteristic $[V=(A \times 0.05) = 14]$. When pulse welding, reduce rating by 35%.

AUT750 Water-Cooled MIG Guns

AUT750 Assembly and Consumables



AUT750 Body Cable Assembly

ITEM NO.	DESCRIPTION	PART NO.	ITEM NO.	DESCRIPTION	PART NO.
1	AUT 750 w/Diffuser, Nozzle, and Tip .094 (Std)	974.0001	15	Clamp Hose 9.5mm with Bridge	173.0001
	AUT 750 Coarse Thread with Airblast, Diffuser, Nozzle and Tip .094 (Standard)	974.0047	16	Center Airblast Nipple (needed for airblast) optional	940.0040
	AUT 750 with Stainless Steel Sleeve	974.9003	17	Center Airblast Nut (needed for airblast) optional	500.0138
	AUT 750 Coarse Thread with Stainless Steel Sleeve	974.9005	20	Diffuser AUT 750 without Airblast (Std)	974.0032
2	Inner Barrel AUT 750 (for regular and coarse thread) 6mm I.D.	974.0004	20A	Insulator AUT 750 (with airblast)	974.0021
				Insulator AUT 750 coarse thread (with or without airblast)	974.0044
3	Outer Barrel AUT 750	974.0005	21	Contact Tip .045" M10 CZ	140.0481
	Outer Barrel AUT 750 Coarse Thread	974.0046		Contact Tip .052" M10 CZ	140.0547
	Outer Barrel AUT 750 Coarse Thread with Stainless Steel Sleeve	974.9006		Contact Tip .062" M10 CZ	140.0616
4	Washer Insulating AUT 750	974.0022		Contact Tip .078" M10 CZ	140.0665
5	Insulator Mounting AUT 750	974.0027		Contact Tip .094" M10 CZ	140.0698
6	Wireguide .177" ID. (4.5mm) AUT 750	974.0030		Contact Tip .110" M10 CZ	140.0712
	Wireguide .213" ID. (5.4mm) AUT 750	974.0031		Contact Tip .126" M10 CZ	140.0734
7	Plug Air-Blast Inlet	974.0029	22	Nozzle Conical AUT 750	145.0019
8	Fitting Water Elbow .25"	974.0006		Nozzle Cylindrical AUT 750mm 24mm I.D.	145.0005
9	Gas Fitting AUT 750 .125"	974.0007		Nozzle Conical AUT 750 Coarse Thread	145.0498
10	Nut	710.0014	23	Adapter for Direct Mount (optional, for use with adapter plugs)	974.9004
11	Insulator	940.0035	24	Liner Steel .035-.045 3'	122.9064
12	Nut	500.0082		Liner Steel .052-.062 3'	122.9065
13	Assembly Screw	009.0064		Liner Steel .078-.125 3'	122.9066
14	Water Hose Bulk	103.0001	25	Adapter Plug Miller	501.9705

* Additional rear end plugs available for most major wire feeders. Please call customer service at 1.800.542.4867.



WARNING

Read and follow the manufacturer's instructions, employer's safety practices, and Material Safety Data Sheets (MSDSs).

Only qualified personnel should install, use, or service this material and/or equipment

WELDING SPARKS can cause fire or explosion

- Do not weld near flammable material
- Do not weld on closed containers.
- Remove combustibles from the work area and/or provide a fire watch.
- Avoid oily or greasy clothing as a spark may ignite them.



ARC RAYS can injure eyes and burn skin

- Always wear correct eye, ear, and body protection
- Always wear a welding helmet with the proper grade filter lens. Protect yourself and others from spatter arc flash rays by using protective screens, barriers and welding curtains.
- Always wear protective gloves and clothing to cover exposed skin. This will aid in the prevention of arc and spatter burns.



ELECTRIC SHOCK can kill.

- Always wear dry insulating gloves
- Do not touch live electrical parts.
- Always disconnect power source before hooking up or changing electrodes, nozzles and other parts.



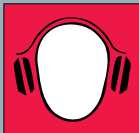
FUMES AND GASES can be hazardous to your health.

- Keep your head out of the fumes
- Use enough ventilation or exhaust at the arc to keep fumes and gases from your breathing zone, and general area.
- Fumes from cutting and welding can deplete air quality, causing injury or death. Always wear an air supplied respirator in confined areas, or if breathing air is not safe.



LOUD NOISE can damage hearing.

- Always wear protective hearing devices to ensure protection when noise levels exceed OSHA standards.



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Read American National Standard Z49.1, "Safety in Welding, and Cutting, and Allied Processes," available from American Welding Society, 550 N.W. LeJune Rd., Miami, FL 33126; OSHA Safety and Health Standards, available from U.S. Government Printing Office, Washington, DC 20402.

Product range



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