

Our Story

It's simple - to design and manufacture technically superior welding torches which

Make Work Life Easier



Range Overview
2023 / 24



Lighten your load

20% weight reduction guaranteed!

Industrial Mig Series

Light Fabrication, Maintenance and Repair

Industrial Mig Series

Tackles everyday jobs easily

Armour Plated
Damage Resistant Necks

Ergonomic Handle
Reduced wrist joint stress

Microswitch
Trigger

Over 1 Million Cycles
Trigger Life > 1 Million Cycles



Tip Adaptor
Left hand thread
ensures easy nozzle
removal



Contact Tips
Double current
pick up for cooler
running tips



Nozzles
Patented Nozzle / Integrated
Insulator System



SuperSoft Premium power cables
40% lighter than standard cables



What is SIC?

SIC TECHNOLOGY

Twist the nozzle and the spatter falls off

Industrial Mig Series

IEC/EN 60974-7




M2 Video



	M1	M18	M2	M22	M2M	M22M
Cooling Method	Air-Cooled					
CO ₂	180A	210A	230A	250A	230A	250A
Mixed Gas M21	150A	180A	200A	220A	200A	220A
Duty Cycle	60%	60%	60%	60%	60%	60%
Wire Size	0.6-1.0mm	0.6-1.0mm	0.8-1.2mm	0.8-1.2mm	0.8-1.2mm	0.8-1.2mm

Order Codes	M1-3M	M18-3M	M2-3M	M22-3M	M2M-3M	M22M-3M
	M1-4M	M18-4M	M2-4M	M22-4M	M2M-4M	M22M-4M
	M1-5M	M18-5M	M2-5M	M22-5M	M2M-5M	M22M-5M



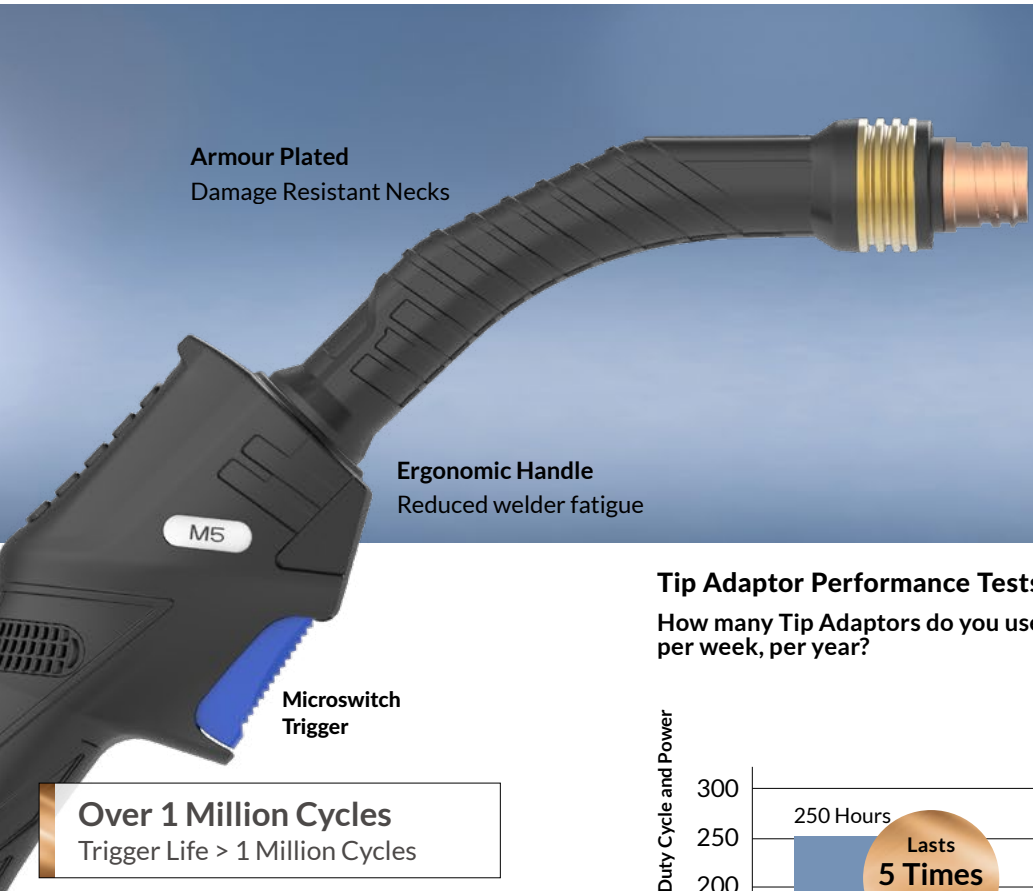
Constructed for Power,
Performance and Durability

High Performance Air-Cooled Mig Series

Heavy Fabrication, Structural, Ship Building, Transportation

High Performance Air-Cooled Mig Series

Feel the Power without the Weight



Armour Plated
Damage Resistant Necks

Ergonomic Handle
Reduced welder fatigue

Microswitch
Trigger

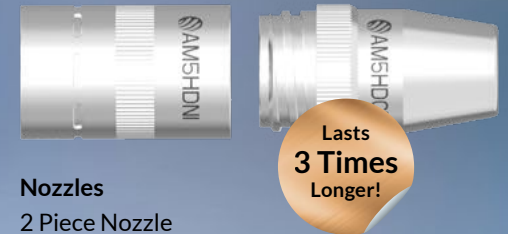
Over 1 Million Cycles
Trigger Life > 1 Million Cycles



Tip Adaptors
• High conductivity copper for high amps
• Brass options for lower duty / amps



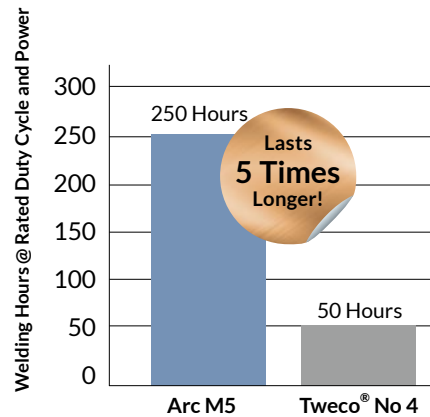
Contact Tips
CurCrZr for pulse and high deposition applications



Nozzles
2 Piece Nozzle
Allows replacement of the worn out front-end, rather than replace the whole nozzle

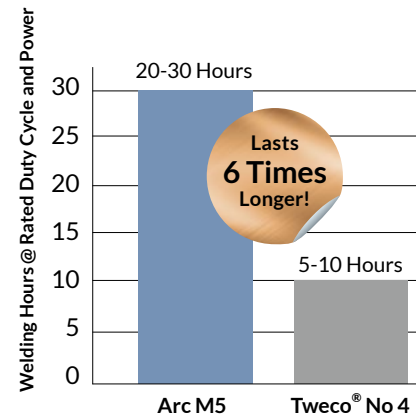
Tip Adaptor Performance Tests

How many Tip Adaptors do you use per day, per week, per year?



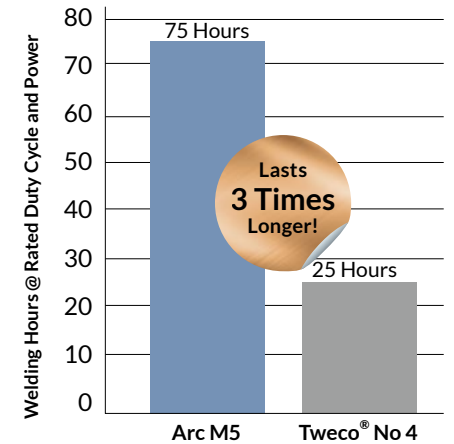
Contact Tip Performance Tests

How many contact tips do you use per day, per week, per year?



Nozzle Performance Tests

How many nozzles do you use per day, per week, per year?



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Results in: Reduced downtime. Improved productivity. Reduced costs.

High Performance Air-Cooled Mig Series

Steel Liner

Recommended for: Fe, Fe-MC/FC, Light and medium duty applications



Al-combi Liner

Recommended for: Al-Combi Liner. Can be used for SS-MC/FC wires



Soft wire/combi liner option features sliding and locking collet system with integrated gas seal.

Liner Options

- Steel liners for steel wire, steel metal core and flux core wire
- Combi-liners for aluminum, stainless steel, stainless steel metal core and flux core wire

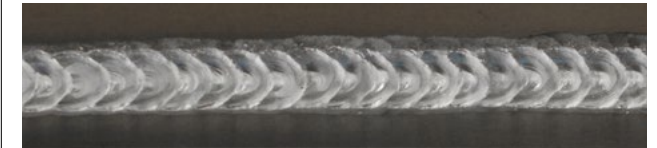


SuperSoft-20°C
Premium Power Cables
Perfect for extreme subzero working conditions

40% lighter
and more flexible

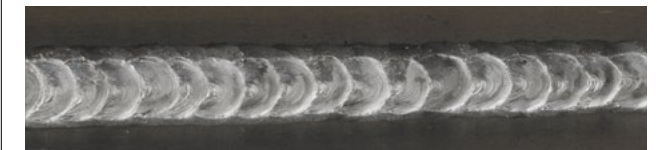
Bright and Clean Welds

M5, 200A Pulse 25V, Horizontal welding



Clean and bright surface

Tweco® No 4, 200A Pulse 25V, Horizontal welding



Light Contamination on Welding Bead Surface

Better Weld Quality From Improved Wire Feed and Gas Coverage

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High Performance Air-Cooled Mig Series

IEC/EN 60974-7




M5 Video



	M3	M4	M5	M6
Cooling Method	Air-Cooled			
CO₂	300A 10.5KW	350A 14.1KW	390A 14.6KW	430A 17.6KW
Mixed Gas M21	270A 8.9KW	320A 11.4KW	360A 12.2KW	400A 14.8KW
Duty Cycle	60%	60%	60%	60%
Wire Size	0.9-1.2mm	0.9-1.2mm	0.9-1.6mm	0.9-2.0mm

Order Codes	M3-3M	M4-3M	M5-3M	M6-3M
	M3-4M	M4-4M	M5-4M	M6-4M
	M3-5M	M4-5M	M5-5M	M6-5M



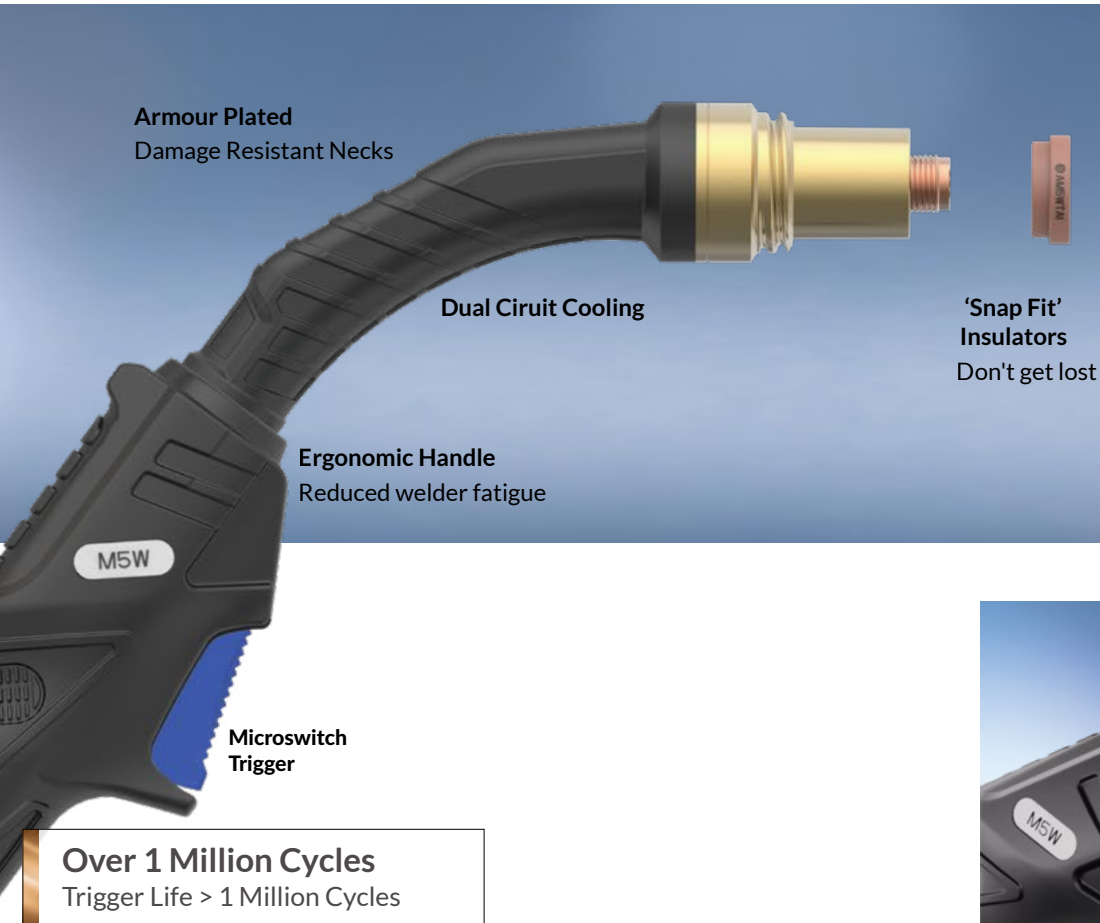
Where Durability is
Essential

High Performance Liquid-Cooled Mig Series

Heavy Fabrication, Structural, Ship Building, Transportation

High Performance Liquid-Cooled Mig Series

High Performance is Non-Negotiable



Over 1 Million Cycles
Trigger Life > 1 Million Cycles

‘Snap Fit’
Insulators
Don't get lost

Lasts
5 Times
Longer!

Tip Adaptors

- High conductivity copper for high amps
- Brass options for lower duty / amps

Lasts
6 Times
Longer!

Contact Tips

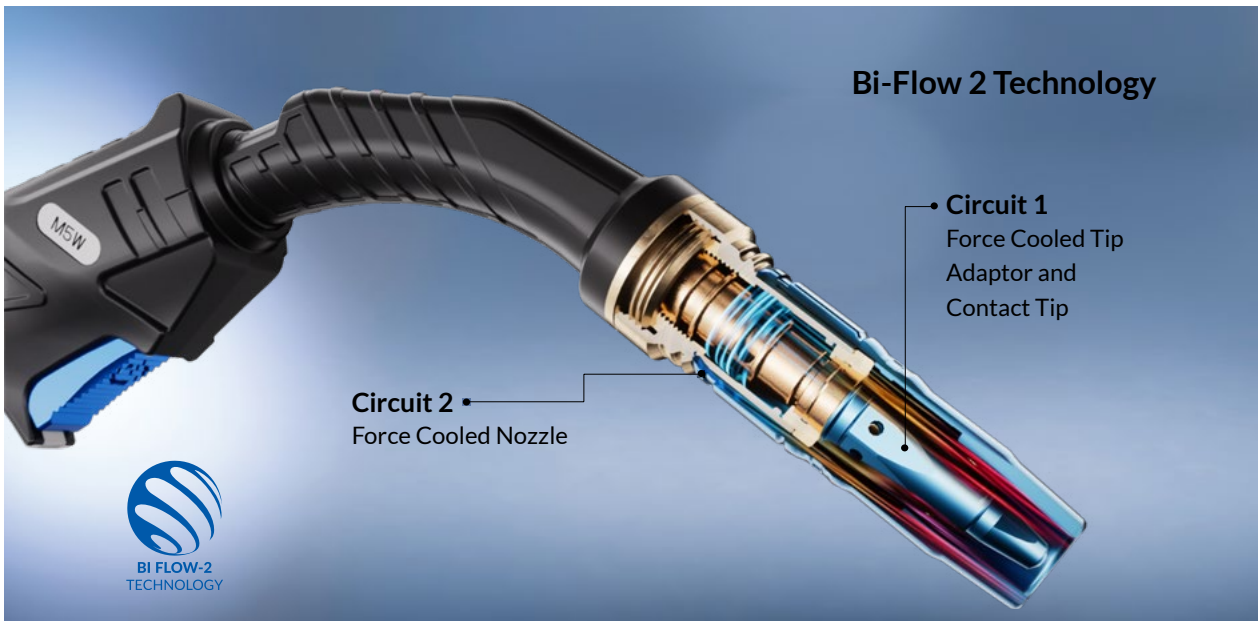
CurCrZr for pulse and high deposition applications

Double current pick up for cooler running tips

Lasts
3 Times
Longer!

Nozzles

Push on Nozzle – Reusable nozzle ring for longevity and sustainability



High Performance Liquid-Cooled Mig Series



Liner Options

- Combi-liners for heavy duty aluminium welding and stainless steel metal core and flux core wires
- Steel liners for steel wire, steel metal core and flux core wires
- Optional stainless steel liners for high deposition stainless wire applications

Power cables with superior grade copper conductors protect against contaminants

Over 1 Million Flexes
In life cycle testing

Bright and Clean Welds

M5W, 200A Pulse 25V, Horizontal welding



Binzel® 501W 200A Pulse 25V, Horizontal welding



Light Contamination on Welding Bead Surface

Better Weld Quality From Improved Wire Feed and Gas Coverage

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High Performance Liquid-Cooled Mig Series

Cost Savings

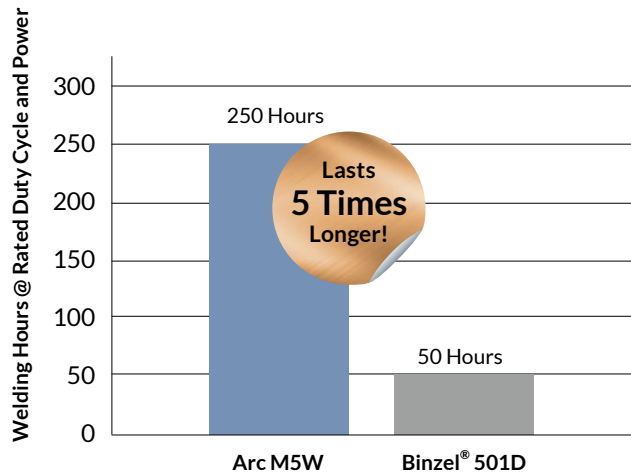
High Performance is Non-Negotiable

All the technology that goes into the Arc High Performance Series is there for a reason – **Power, Performance and Durability.**

Core technologies have been engineered to keep the nozzle, tip adaptor and contact tips cooler, which leads to improved performance and cost savings.

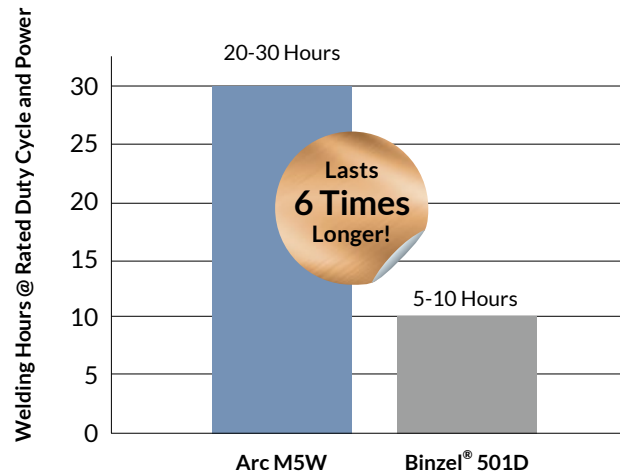
Tip Adaptor Performance Tests

How many Tip Adaptors do you use per day, per week, per year?



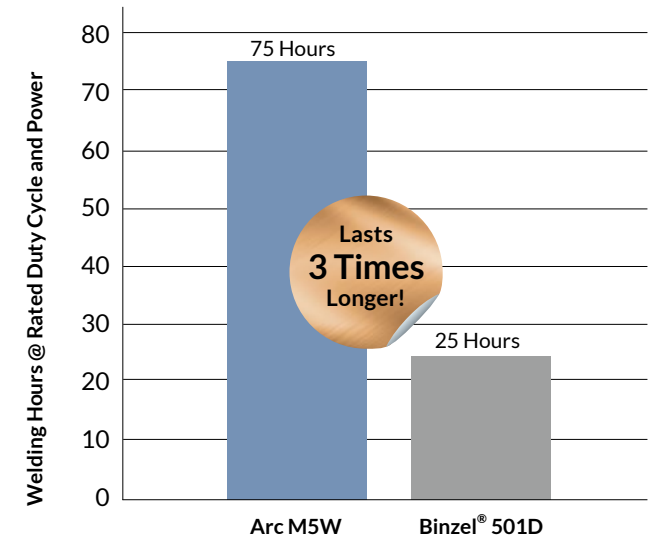
Contact Tip Performance Tests

How many contact tips do you use per day, per week, per year?



Nozzle Performance Tests

How many nozzles do you use per day, per week, per year?



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Results in: Reduced downtime. Improved productivity. Reduced costs.

High Performance Liquid-Cooled Mig Series

IEC/EN 60974-7



M5W Video



		M5W	M55W	M65WS	M65W	M65WLP
Cooling Method		Liquid-Cooled				
CO₂	1600W	560A 24KW	580A 25KW	580A 25KW	580A 25KW	590A 26KW
	1200W	540A 22KW	550A 23KW	550A 23KW	550A 23KW	560A 24KW
	1000W	510A 20KW	520A 21KW	520A 21KW	520A 21KW	530A 22KW
Mixed Gas M21	1600W	540A 22KW	560A 22KW	560A 22KW	560A 22KW	570A 24KW
	1200W	520A 21KW	530A 21.5KW	530A 21.5KW	530A 21.5KW	530A 22KW
	1000W	500A 19.5KW	510A 20KW	510A 20KW	510A 20KW	500A 19.5KW
Duty Cycle		100%	100%	100%	100%	100%
Wire Size		0.9mm-1.6mm	0.9mm-2.0mm	0.9mm-2.0mm	0.9mm-2.0mm	0.9mm-2.0mm

Order Codes	M5W-3M	M55W-3M	M65WS-3M	M65W-3M	M65WLP-3M
	M5W-4M	M55W-4M	M65WS-4M	M65W-4M	M65WLP-4M
	M5W-5M	M55W-5M	M65WS-5M	M65W-5M	M65WLP-5M



Unparalleled
Performance levels

High Performance Tig Series

Aerospace, Vehicle Production, Offshore, Energy,
Pipelines and Windmills

High Performance Tig Series

Built to Last



Superior Grade Materials

Maximum Thermal Resistance

Designed for neutral wrist position

Standard Set-Up

Head Gasket
350°C Operating Temperature

One Piece System
No Twisting

Ceramic Cups
Thicker Edge aids Rolling the Cup

Quartz Cups
Unmatched Visibility

Lasts 10* Times Longer!

Lasts 5 Times Longer!

Lasts 20* Times Longer!

Super Series Set-Up

One Piece System
No Twisting

Ceramic Cups
Thicker Edge aids Rolling the Cup

Quartz Cups
Unmatched Visibility

Lasts 20* Times Longer!

Lasts 5 Times Longer!

Torch Bodies

Liquid-Cooled Flex Life > 50 Flexes

Air-Cooled Flex Life > 500 Flexes

All gas lens options have replaceable gauze sets

*Note: Gas Lens with replaceable gauze

High Performance Tig Series

Interchangeable Plug and Play Modules



Momentary Kit

3 Button Momentary Kit

Single Button Rocker

Double Button Rocker

Momentary + Horizontal Pot

Digital Control Module

*OEM Only

Analogue and digital control options

A seamless solution for effortlessly replacing or interchanging switches.

High Performance Tig Series

Global machine systems easily reconfigure on a standard cable set

Surelok Dinse

Surelok Gas-Through

Surelok QD

Rapid Fit Connection System

All terminations can be removed and recoupled with a standard spanner and Allen key



Customer Testimonial

"Ever since we started using the rapid fit system, our torch supply has been seamless. We can now get torches the same day from stock, saving us valuable time and resources. The torches themselves are fantastic and perform exceptionally well. With our store man taking care of custom torches, our service team can focus on what they do best - welder repairs. Highly satisfied!"

All machine connectors and switch plugs easily reconfigure at Point of Sale

High Performance Tig Series

Cost Savings

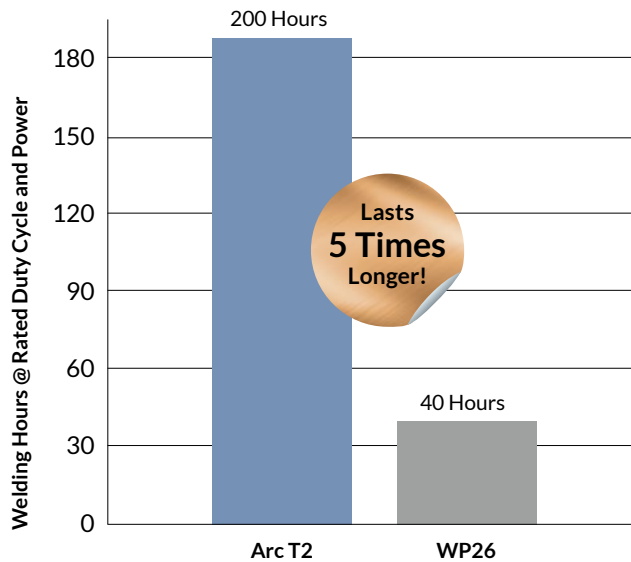
Built to Last

All the technology that goes into the Arc High Performance Series is there for a reason – **Power, Performance and Durability.**

Core technologies have been engineered to keep the ceramic, collet and gas lens body cooler, which leads to improved performance and cost savings.

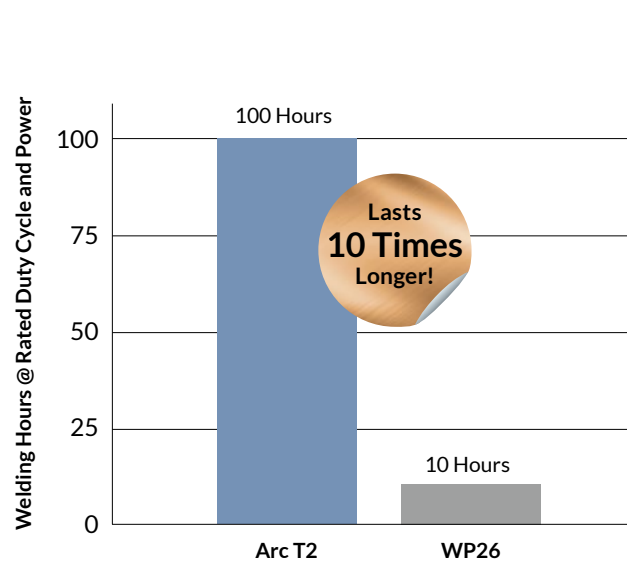
Ceramic Performance Test

How many Ceramics do you use per day, per week, per year?



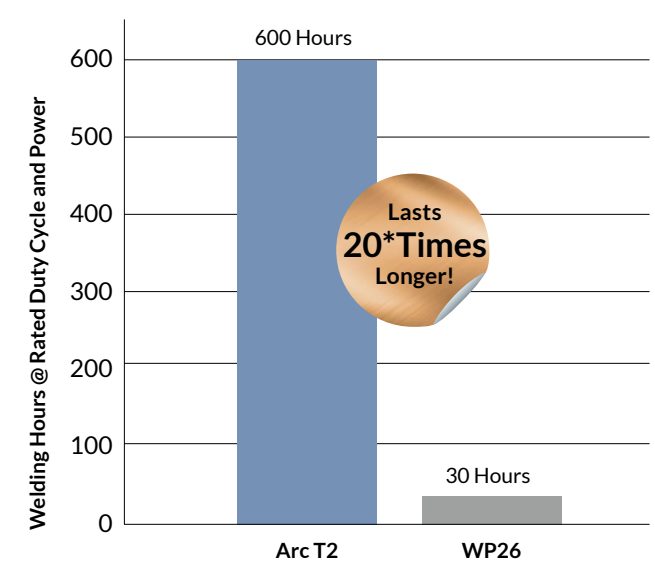
Collet Performance Test

How many Collets do you use per day, per week, per year?



Gas Lens Body Performance Tests

How many Gas Lens Bods do you use per day, per week, per year?



Reduced downtime Improved productivity Reduced costs

*Note: Gas Lens with replaceable gauze

High Performance Tig Series

IEC/EN 60974-7

Technical Data	
Operating Temperature	-20°C/+40°C
Minimum Liquid Flow Rate	1.5 l/min
Minimum Liquid Inlet Pressure	2.5 Bar
Maximum Liquid Inlet Pressure	5.0 Bar
Maximum Liquid Inlet Temperature	50°C



T2 Video



T5W Video



	T1	T2	T2FX	T3	T3FX	T1W	T3W / T3WFX	T4W / T4WFX	T5W / T5WFX			
Cooling Method	Air-Cooled					Liquid-Cooled						
							12.5ft	25ft	12.5ft	25ft	12.5ft	25ft
DC 1600W	140A	190A	180A	240A	220A	330A	400A	400A	450A	450A	550A	550A
AC 1600W	100A	135A	125A	170A	155A	230A	280A	280A	315A	315A	385A	385A
Duty Cycle	35%	35%		35%		100%	100%		100%	60%	100%	60%
Electrode Size	1.0-3.2mm/0.04"-1/8"	1.0-4.0mm/0.04"-5/32"		1.0-4.8mm/0.04"-3/16"		1.0-4.0mm/0.04"-5/32"	1.0-4.0mm/0.04"-5/32"		1.6-4.8mm/1/16"-3/16"		1.6-6.4mm/1/16"-1/4"	

Order Codes	12.ft	T1-S1-4M-SL-QGS1 T2-S1-4M-SL-QGS1 T2FX-S1-4M-SL-QGS1	T3-S1-4M-SL-QGS1 T3FX-S1-4M-SL-QGS1	T1W-S1-4M-SL-QWF1-QWR1-QGS1	T3W-S1-4M-SL-QWF1-QWR1-QGS1 T3WFX-S1-4M-SL-QWF1-QWR1-QGS1	T4W-S1-4M-SL-QWF1-QWR1-QGS1 T4WFX-S1-4M-SL-QWF1-QWR1-QGS1	T5W-S1-4M-SL-QWF1-QWR1-QGS1 T5WFX-S1-4M-SL-QWF1-QWR1-QGS1
	25.ft	T1-S1-8M-SL-QGS1	T2-S1-8M-SL-QGS1 T2FX-S1-8M-SL-QGS1	T3-S1-8M-SL-QGS1 T3FX-S1-8M-SL-QGS1	T1W-S1-8M-SL-QWF1-QWR1-QGS1	T3W-S1-8M-SL-QWF1-QWR1-QGS1 T3WFX-S1-8M-SL-QWF1-QWR1-QGS1	T4W-S1-8M-SL-QWF1-QWR1-QGS1 T4WFX-S1-8M-SL-QWF1-QWR1-QGS1



MAKE WORK
LIFE EASIER



www.arctorchology.com