

WELDING DEALS, NEWS & VIEWS

INTRODUCING ALLCLEAR® ON-TORCH FUME EXTRACTION

LEV'S vs PAPR vs ON-TORCH WHAT'S RIGHT FOR YOUR WORKSHOP?

TIG WELDING
TIPS & TRICKS

Weldclass



ALLCLEAR MT84

Your Weldclass Distributor:

www.weldclass.com.au



WELCOME TO THIS EDITION OF METALMAG

Your source for practical insights, deals and new gear from Weldclass

In this issue, we cover a range of content aimed at helping you get more out of your equipment and your time on the job. You'll find current deals and product specials, plus a closer look at some of the latest additions to our range.

We've included a set of TIG welding tips and techniques - a few simple but effective rules of thumb that can help improve results, particularly for those still refining their skills.

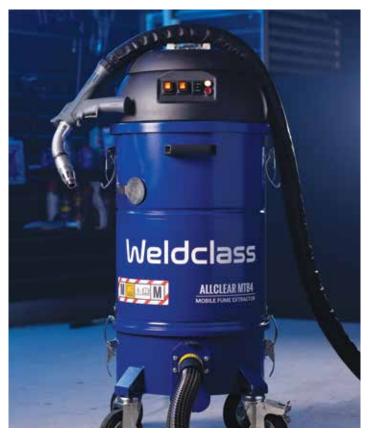
You'll also find a breakdown of fume control solutions, including how different systems compare and when it makes sense to combine them. Whether you're running a busy workshop or welding out onsite, choosing the right gear can make a big difference in both safety and efficiency.

Thanks for reading, and we hope you find something useful in this edition of METALMAG.



INTRODUCING ALLCLEAR® MT84 & MT31 ON-TORCH WELDING FUME EXTRACTORS

Weldclass has expanded its fume control range with the release of two new on-torch MIG-Gun extraction systems: the ALLCLEAR® MT31 and MT84. Designed to capture fumes at the source, both units offer welders a practical, mobile solution for cleaner, safer work environments.

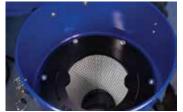


ALLCLEAR® MT84

The MT84 is built for high-volume and production welding, where consistent fume extraction is essential. Australia's most powerful torch extractor in its class. Delivers strong suction performance and is suited to workshop environments where durability and long-duty operation are key.









ALLCLEAR® MT31

The MT31, on the other hand, is compact and highly portable - ideal for field work, tight spaces, or lighter applications. Despite its smaller footprint, it still delivers reliable extraction where it's needed most.

Both units are designed for easy setup and operation, with efficient filtration to support consistent performance and extended filter life.



Whether you're working in a production bay or on-site, the ALLCLEAR MT84 and MT31 offer a smarter way to manage welding fumes without compromising mobility. Weldclass continues to develop real-world solutions that help protect welders and improve day-to-day productivity.

ALLCLEAR® MT31

On-Torch Fume Extractor Package

AT A GLANCE

- Designed for light/medium industrial applications (for high volume use, consider ALLCLEAR MT84 unit)
- ✓ Auto On-Off, syncs with MIG torch trigger
- Cleanable filter with spark deflector
- Compact and portable
- ✓ Operates on ~230V 10A single phase power
- Compact and portable, weighs 24kg



ALLCLEAR® MT84

On-Torch Fume Extractor Package

AT A GLANCE

- Made in Europe
- Designed for high volume & frequent use: dual motors, large filter, high airflow
- Australia's most powerful on-torch extractor in it's class
- Auto On-Off, syncs with MIG torch trigger via current sensor
- Spark filter shields filter from coarse/hot particles, and reduces fire risk
- Cleanable filter for extended service life
 & reduced operating cost
- ✓ Fast, easy, and safe in-situ filter cleaning via jet-clean function
- Compact, portable, with large heavy-duty wheels for rugged workshop use



ALLCLEAR® FT36E

Fume Extraction MIG Torch

AT A GLANCE

- ✓ Included in above MT31 & MT84 packages
- 320A capacity
- ✓ Removable, fast changeover pistol-grip
- ✓ Uses common BZL 36 consumable parts



LEV, PAPR & ON-TORCH WHAT IS RIGHT FOR YOUR WORKSHOP?

Welding fumes aren't just smoke, they contain fine metal particles, gases and vapours that can seriously harm your health. If you weld regularly, you need a proper fume control plan.

There are three main options: Local Exhaust Ventilation (LEV), Powered Air Purifying Respirators (PAPR), and On-Torch Extraction. Each has strengths and limitations, but together they offer the best protection.

LEV - Clean Air for the Whole Workshop

LEV systems, like the Weldclass ALLCLEAR® range, use mobile extraction arms to pull fumes away from the weld zone. They're highly effective at cleaning the general air and reducing exposure for everyone.

The downside? LEV relies on precise positioning, if the arm is too far or knocked out of place, performance drops. It's best suited for localised jobs, not long weld runs beyond the reach of the hood.



PAPR - Personal Protection Wherever You Go

PAPR systems deliver filtered air to the welder via a powered unit and helmet. Great for almost any welding applications and processes, be that production, mobile work, tight spaces, etc.

The catch? PAPR only protects the user. Fumes still enter the air, risking others if no other controls are in place.



On-Torch MIG-Gun Extraction - Capture It at the Arc

On-Torch systems, capture fumes directly at the arc/torch nozzle, ideal for production and repetitive welding.

Drawbacks? They can add weight and bulk to the torch and aren't as effective for vertical welding compared to horizontal or down-hand work.



Stronger Together

No single solution is perfect, but combined, they offer powerful, layered protection:

- ✓ PAPR protects individual welders on the move
- ✓ LEVs (Mobile Extractors) and Torch Extractors keep the workshop air clean by capturing fume at / close to the source air clean

Together, they help protect welders, co-workers, and the working environment.

Australian legislation, enforced nationwide since 2024, sets strict fume control standards. In many cases, two control methods are effective. For high-volume welding, all three offer enhanced protection, but fume measurement is essential to ensure legal compliance.







ALLCLEAR® MA350 STD

Mobile Fume Extractor

- Operates on 3ph/415V power supply
- Twin 3m arms
- Twin filters for increased dust/fume collection capacity
- Cleanable filter for longer filter life & reduced operating costs
- 'In situ' filter cleaning access via filter cleaning door, clean with compressed air nozzle
- · Special spark deflector virtually eliminates fire risk
- · Compact and mobile



ALLCLEAR® FA25

Wall-Mounted Welding Fume Extraction Fan

- Used where fumes are ducted externally and/or to large/ducted central extraction/filter units
- Operates on ~230V 10A single phase power
- Wall-mounted, for minimal intrusion in work spaces



Part No.	Description
WC-FA253M	Fan + 3m Arm Package
WC-FA254M	Fan + 4m Arm Package



\$4,250 O Incl GST



PROMAX 850R PAPR HELMET \$1,149 BONUS VALUE

REDEMPTION OFFER

ALLCLEAR® TA400

Downdraft Weld/Grind Table

- Grinding & welding down draft table with filter
- Hinged side panels allow placement of longer objects on the table
- Heavy-duty 5mm thick table top
- Spacious 1500 x 700mm down-draft work bench
- · Auto Clean
- Operates on 3ph/415V power





WC-TA400



PROMAX 850R PAPR HELMET \$1,149 BONUS VALUE

REDEMPTION OFFER

METALMAG EXCLUSIVE REDEMPTION OFFER

Purchase any ALLCLEAR model advertised above to redeem FREE Promax 850R PAPR welding helmet.

Visit the code/link for redemption instructions and T&Cs.





www.weldclass.com.au/redemption258



CHECK OUT REVIEWS ON THE PROMAX 850R PAPR HELMET













PROMAX 850R

Welding Helmet with PAPR Respirator



Bonus 2nd battery



Flip-up lens, wide view grinding visor, side view windows



Advanced digital controls + illuminated LCD screen



Super-size view equivalent to 97.5 x 97.5mm with V1 (1/1/1/1) rated optics



Auto or manual shade, sensitivity & delay control













METALMAG REDEMPTION OFFER

Purchase a Promax 850R PAPR welding helmet advertised here to redeem FREE Promax HV5 Jacket valued at \$83.

Visit the code/link for redemption instructions and T&Cs.



FORCE SERIES WELDERS

- ✓ Industry-First 7 Year Warranty Offer
- ✓ Exclusively developed by Weldclass Australia
- √ Top-of-class performance







FORCE 205_{MST} MIG | STICK | TIG

- Power Factor Correction
- Synergic or manual controls
- 20+ pre-set programs (for different materials.)
- · Job save
- · Geared wire drive system







- Takes 1kg or 5kg spools
- Spool gun ready
- · Generator friendly Min: 8kva



weldclass.com.au/redemption258



FORCE 290_{MST} MIG | STICK | TIG

- 290A @55% max output
- Synergic or manual MIG function
- Job save
- Geared 4-roll wire drive system
- Takes 5kg or 15kg spools





- · Spool gun ready
- · Generator friendly Min: 15kva



weldclass.com.au/redemption258



FORCE 350MST MIG | STICK | TIG

- Max output 350A @ 60%
- · Synergic or manual MIG function
- Job Save: 20 memory settings
- · Geared 4-roll wire drive system
- Takes 5kg or 15kg spools
- Spool gun ready
- · Generator friendly Min: 25kva







weldclass.com.au/redemption258

From

\$3,490 One GST

Part No.	Description	From*
WC-350MST	350MST Compact Unit	\$3,490.00
WC-350MSTK3	350MST Package #3	\$4,990.00



FORCE 180MST MIG | STICK | TIG

- Takes 1kg or 5kg spools
- Compact, robust & lightweight
- Robust drive system
- Digital readouts

\$**879**00*
WC-06128







- · Generator compatible min: 8kva
- · Spool gun ready



weldclass.com.au/redemption258



FORCE 135st STICK | TIG

- 140A @ 20% output
- Free gloves
- Extremely compact
- · Adjustable hot start & arc force







- Optional VRD
- Generator friendly Min: 7kva
- High OCV for smooth and reliable arc









FORCE 201T AC/DC PULSE TIG









- · Compact, robust & lightweight
- · LCD digital meter
- · HF or lift arc ignition
- Super-Flex 8m torch with remote amp control
- · Pulse frequency & width controls

\$1,75000*



weldclass.com.au/redemption258



Robust design,
 1.6mm steel

 Large tray fits most welders up to 250A

 $\$199^{00^*}_{\mathsf{Incl}\,\mathsf{GST}}$

WC-06235





Part No. Description
5-TX180/1K TX-180 with Single Torch & 1.8m Track

MIG TORCHES

When it comes to welding torches and spare parts, quality and consistency is critical. Weldclass has a "no short cuts" approach to quality.



BZL 15

- 180 Amp max capacity (150A @ 60% duty cycle, using mixed argon gas)
- · Ideal for light fabrication
- Euro connection

\$12900*

Part No.	Description	From*
WC-03609	3m	\$129.00
WC-03610	4m	\$139.00

BZL 36

- · 320 Amp max capacity (270A @ 60% duty cycle, using mixed argon gas)
- · Heavy duty for production welding
- Euro connection

Part No.	Description	From*
WC-03617	3m	\$249.00
WC-03618	4m	\$269.00
WC-03619	5m	\$299.00

BND 300

- · 300 Amp capacity
- · For medium to heavy fabrication & production welding at high duty cycles
- · Euro connection

\$42900*

\$37500*

Part No.	Description	From*
3-MTBN3E/12	3.5m (12ft)	\$429.00
3-MTBN3E/15	4.6m (15ft)	\$439.00

BND 400

- · 400 Amp capacity
- · For medium to heavy fabrication & production welding at high duty cycles
- Euro connection

\$48900°

Part No.	Description	From*
3-MTBN4E/12	3.5m (12ft)	\$489.00
3-MTBN4E/15	4.6m (15ft)	\$499.00

TWC 4

• 400 Amp capacity (350A @ 60% duty cycle, when using mixed argon gas)

· For medium to heavy fabrication & production welding at high duty cycles

Part No.	Description	From*
3-MTT4E/12	Euro Connection 3.5m (12ft)	\$375.00
3-MTT4E/15	Euro Connection 4.6m (15ft)	\$399.00
3-MTT4B/12	Bayonet Connection 3.5m (12ft)	\$489.00
3-MTT4B/15	Bayonet Connection 4.6m (15ft)	\$499.00



PROMAX 180

Welding Helmet

- Exceptional value
- Lightweight & comfortable
- Magnification lens holder
- Ideal for occasional MIG & stick welding
- Ultra clear vision optical rating 1/1/1/2



\$**89**99*

Part No.	Description
WC-05164	Black

PROMAX 500 Welding Helmet

- Super-Size 98 x 87mm viewing area, with Ultra-Clear 1/1/1/1 rated optics
- Dual shade range 5-8
 / 9-13 plus grind mode
- 4 arc sensors for reliable arc detection & switching

Part No.	Description	
WC-05317	Black Stealth	
WC-05318	WeldWolf	
WC-05319	Revhead Graphic	



\$19900*

PROMAX HS

FR Hood for Welding Helmets



 Protects head, neck, and ears from sparks, spatter, debris, sunburn, etc.

 Supplied with selfstick hook & loop



Part No.	Description	
WC-05456	Hood with self-stick Hook & Loop	

PROMAX

Leather/FR Sleeves

- · One size fits all
- For protection during welding, cutting & grinding
- Comfortable & easy to wear
- Combination leather and FR cotton
- Flexible, allows for easier movement

Part No.	Description	
WC-05375	Leather/FR Sleeves	



\$6900*

PLATINUM TG-21TIG Welding Gloves

- Specially selected leather and carefully crafted for maximum comfort and sensitivity
- The Best of Both: Excellent dexterity/ feel and good heatresistance/long life



Part No. Description \$2990*
WC-04676 Platinum TG21 TIG Gloves

TO VIEW OUR FULL SAFETY RANGE

90*
Incl GST

SCAN THE CODE

PLATINUM 12V

GP Steel Electrodes

- All-Positional: Fast-freezing slag for fillet & butt welding in all positions, including vertical-down
- Classifications: AWS A5.1 E6013 / AS/NZS 1553.1 E4112-0



From \$6290*

Part No.	Description	From*
2-E12V/26	2.6mm 2.5kg	\$62.90
2-E12V/32	3.2mm 5kg	\$93.90

PLATINUM 312

Universal Electrodes

- High strength welding of almost any type of steel
- All position, except vertical-down
- Classification: AWS E312-16

From **\$53**90



Part No.	Description	From*
P2-31226	2.6mm Handy Pack (10 Rods)	\$53.90
P2-31232	3.2mm Handy Pack (8 Rods)	\$53.90
WC-06294	2.6mm 1kg Re-usable Pack	\$87.00
WC-06295	3.2mm 1kg Re-usable Pack	\$87.00

PLATINUM GL-11®

Gasless Wire

- Suitable for single or multi-pass welds
- All positional wire, for use on mild and galvanised steel
- Ideal for portable use
 no gas required
- Classification: AWS A5.20 E71T-11



From \$**99**99*

Part No.	Description	From*
2-088FM	200mm / 4.5kg Spool 0.8mm	\$99.00
2-098FM	200mm / 4.5kg Spool 0.9mm	\$89.99
2-128FM	200mm / 4.5kg Spool 1.2mm	\$89.99

STEEL S6

Filler Rod

- For general TIG welding or oxy/acetylene fusion welding of mild steels
- Classification: AWS A5.18 ER70S-6

\$3990*



Part No.	Description
WC-03782	1.6mm - 1.0kg Handy Pack
WC-03783	2.4mm - 1.0kg Handy Pack

STAINLESS STEEL 316L

Filler Rod

- For TIG welding common 300 series stainless steels, such as 301, 302, 304, 304L, 316, 316L also 409, 444 and 3cr12.
- Classification: AWS A5.9 ER 316L

\$5900* Incl GST



Part No.	Description
WC-02373	1.6mm - 1.0kg Handy Pack
WC-02452	2.4mm - 1.0kg Handy Pack

ALUMINIUM 5356

Filler Rod

- For a wide range of aluminium alloys, general aluminium fabrication and repair
- 5% Magnesium content
- Classification: AWS A5.10 ER 5356



Part No.	Description
WC-01535	1.6mm - 0.5kg Handy Pack
WC-02308	2.4mm - 0.5kg Handy Pack
WC-02309	3.2mm - 0.5kg Handy Pack

HEAVY DUTY EARTH CLAMPS

Direct Fit Style

- Fast & easy to fit No cable lug required
- · Robust and durable

Part No.

WC-01647

P6-FC500H

· One-Piece cable terminal and jaw: Very direct current flow from the cable to the job

Ref

В



500A @ 60% | Suit Cable ≤70mm² **EARTH CLAMPS Standard** From • Copper braided shunt for improved conductivity Part No. **Description** From* P6-EC200 200 Amp - A \$14.90 P6-EC300 300 Amp - B \$19.90 P6-EC500

Description



Part No.	Description	From*
WC-01885	MG22 110x95x25mm 90/45°	\$89.00
WC-01886	MG26 150x130x35mm 90°, 45° & 60/30°	\$189.00

MARKAL® PAINT MARKERS

500 Amp - C

Low-Corrosion

· Unsurpassed writing on challenging surfaces: oily, damp, rusty, coated & more

\$29.90

• Low-Chloride / Low-Corrosion Formula = Safe for use on stainless steel, alloys and other special metals

Part No.	Description	Box Qty	From*
ML-96960	White	12	\$9.90
ML-96961	Yellow	12	\$9.90
ML-96962	Red	12	\$9.90
ML-96963	Black	12	\$9.90
ML-96965	Blue	12	\$9.90
ML-96966	Green	12	\$9.90
ML-96830	Pink Valve-Action	12	\$9.90





FIG WELDING: TRICKS OF THE TRADE

In the world of welding, some of the most useful tips aren't found in manuals, they're learned on the job, passed down by experienced tradies, or discovered the hard way. When it comes to TIG welding in particular, there are a few simple "rules of thumb" that can make life a lot easier, especially for those starting out.

Here's a list of handy, time-tested TIG welding tricks that every welder should have up their sleeve.

1. Set gas flow based on nozzle size.

Your shielding gas flow rate should match the internal diameter of your gas nozzle. A good guide is 1/LPM of gas per 1mm of nozzle ID. For example, a 12.7mm nozzle needs around 13/LPM of gas.

2. Tungsten stick-out equals nozzle ID (when using a gas lens).

If you're using a gas lens, the stick-out of your tungsten should be roughly equal to the inside diameter of the nozzle. A 25mm nozzle? Stick-out should be around 25mm.

3. Post-flow time matters.

A simple formula: allow 5 seconds of post-flow gas for every 1mm of tungsten diameter. So a 2.4mm tungsten would need at least 12/Sec of post-flow.

4. Practice the right welds first.

Good TIG welds come with time. Start with beads on plate, move to pad welds, then take on fillet welds (T-joints), which are trickier but great for skill building.

5. Don't weld from a distance.

Your shield should be 150-200mm from the arc. Any further and you'll struggle to see the pool and control the weld properly.

6. Double the gas on open stainless corners.

When DC-TIG welding stainless steel on open outside corner joints, double your gas flow to maintain proper shielding and prevent oxidation.

7. Know your amperage for stainless and steel.

A general rule: 25Amps per 1mm of material thickness. For example, 3mm plate = 75Amps.

8. More amps for aluminium.

Aluminium needs more heat. Use 35Amps per 1mm. So 3mm aluminium = 105Amps.

9. Watch the weld colour

If your TIG weld turns out black or grey, it's not a good weld, you likely need more shielding gas. A clean weld should be shiny silver or gold.

Mastering TIG welding takes time, practice, and attention to detail. By following these simple rules of thumb, setting the right gas flow, maintaining proper stick-out, and watching your weld appearance, you'll build the foundation for strong, clean welds.

Remember, welding isn't just about technique; it's about protecting your work and your health. Keep learning, stay safe, and weld with confidence.

TIG PARTS KITS

17/18/26 Series

- Fit to any 17/18/26 series torch
- All-in-one, ready-to-weld kits: includes all parts needed to fit to torch head & start welding
- Includes 1.6/2.4/3.2mm tungsten electrodes
- Compact storage case easily fits in a toolbox or hangs on pegboard
- Images and part numbers for easy identification and re-ordering



WC-01660 Std



WC-01661 Gas Lens

Part No.	Description	From*
WC-01660	Std 1.6/2.4/.3.2mm	\$95.00
WC-01661	Gas Lens 1.6/2.4/.3.2mm	\$119.00

TIG GLASS CUP KITS

Platinum PX 17/18/26 Series

- High-temperature glass cups provide superior arc visibility
- Fit to any 17/18/26 series torch
- All-in-one, ready-to-weld kits: includes all parts needed to fit to torch head & start welding
- Mesh / gauze filter for smooth gas flow, improves weld quality and allows longer tungsten stick-out
- Wedge collet system provides reliable clamping of tungsten



WC-01662 Std



WC-01663 Large

Part No.	Description	From*
WC-01662	Std (Ø14mm Cup) 1.6/2.4/.3.2mm	\$109.00
WC-01663	Large (Ø29mm Cup) 1.6/2.4/.3.2mm	\$199.00

GAS REGULATORS

- ✓ Heavy-duty PLATINUM Series, no quality shortcuts
- ✓ Internal pressure relief safety valve*
- ✓ One-piece encapsulated seat
- ✓ Proven reliability
- Complies with AS4267

7 YEAR WARRANTY OFFER

PLATINUM ARGON

Twin-Gauge Style Regulator

· Suitable for Argon & mixed-Argon (MIG & TIG) gases

\$9900*



Part No.	Description
4-AR1	0-28L/min

PLATINUM CO2

Regulator

• Suitable for CO2 (MIG) welding gas

\$9900* Incl GST

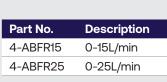


Part No.	Description
4-CO2R1	0-28L/min

PLATINUM ARGON

w/ Bobbin Flowmeter Regulators

· Suitable for Argon & mixed-Argon (MIG & TIG) gases





FLOWMETERS

• Suitable for Argon MIG & TIG welding gas

\$9900*

Part No.	Description
4-BF15	0-15L/min
4-BF25	0-25L/min



PLATINUM NITROGEN

5,000 Kpa Regulator

- · Rubber gauge covers protect gauges from impact
- · Commonly used for HVAC (heating & air conditioning) pressure testing



Part No.	Description	
WC-03401	0-5,000kpa / 0-700psi Type 50 Inlet	

PLATINUM NITROGEN

28,000 Kpa Regulator

· Piston-sensing for smooth & reliable pressure adjustment

\$99000*



Part No.	Description
WC-03400	0-28,000kpa / 0-4,000psi Type 50 & 51 Inlet

FLASHBACK ARRESTORS

FLASHBACK ARRESTORS

- Conform to AS4603-1999 & EN ISO 5175-1
- · Individually flashback, flow & leak tested
- · Independently tested & certified
- · Thermal cut off valve for protection against sustained flashback (regulator models)
- Suitable for a broad range of applications, including: cutting, gouging, brazing, medium-to-heavy heating²

Part No.	For	Gas	From*
P4-FBATO	Torch	Oxygen	\$44.90
P4-FBATF	Torch	Acetylene/LPG	\$44.90
P4-FBARO2	Regulator	Oxygen	\$54.90
P4-FBARF2	Regulator	Acetylene/LPG	\$54.90



¹Vs some other brands of standard model arrestors.

2Max recommended torch/tip oxygen gas consumption of 500L/min. For very heavy heating applications exceeding this, high-flow arrestors are recommended.





Regulator Mount

Up to 35% Higher Flow Capacity¹

WIRE BRUSHES

BEVEL BRUSH

Twist-Knot

- · Made in Europe using high-tensile wire, as used in manufacture of high performance European motor vehicle tyres
- Smooth-action and perfect balance
- · Cup shape for flat surfaces, external corners & edges, etc

Part No.	Ref	Description	From*
TO-3098	Α	100mm Mild-Steel	\$29.90
TO-3610	В	100mm Stainless-Steel	\$69.90
WC-04814	С	OPTI-5 Series 125mm Mild-Steel	\$49.90

\$2990° Incl GST

BEVEL BRUSH

Crimped

· Made in Europe using high-tensile wire, smooth-action and perfect balance



Part No.	Description	
WC-06456	100mm Mild-Steel	

HAND BRUSHES

4-Row Wooden Handle

· Straight wire for heavy-duty action: rust & scale removal, de-slagging, etc



Part No.	Description	From*
TO-3210	Mild Steel	\$6.90
TO-3212	Stainless-Steel	\$8.90

SEE INSIDE FOR GREAT DEALS ON...

























Weldclass

www.weldclass.com.au