



Welding Product Range

2014

WELDERS
OF
02



Interactive Edition



Interactive Edition



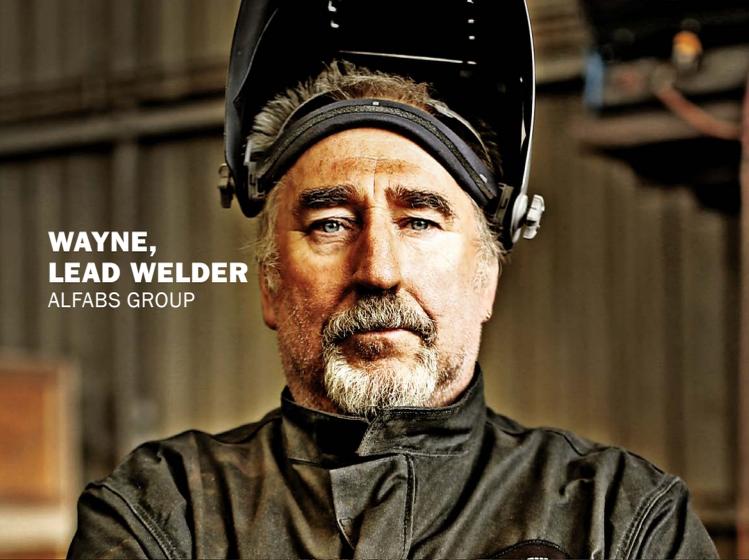
THIS INTERACTIVE CATALOGUE CONTAINS CLICKABLE (OR TOUCH) BUTTONS AND ARROWS TO HELP YOU NAVIGATE YOUR WAY THROUGH THE CATALOGUE QUICKLY.

Coloured arrows displayed on the contents page will direct you to the product sections.

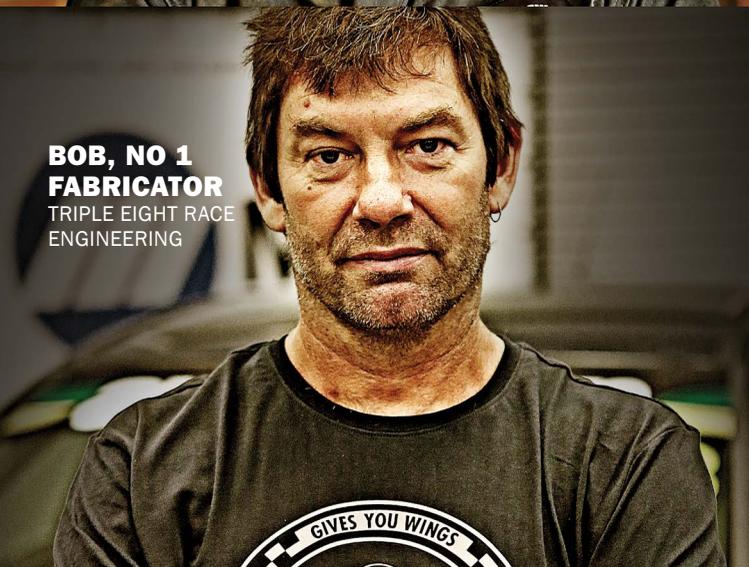


This button will direct you back to the main 'contents' page for the entire catalogue. From here you can navigate to any other section easily.

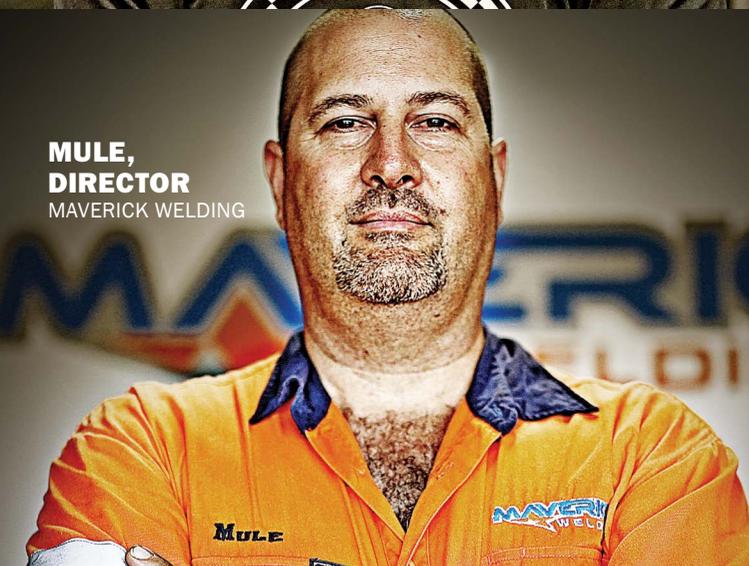




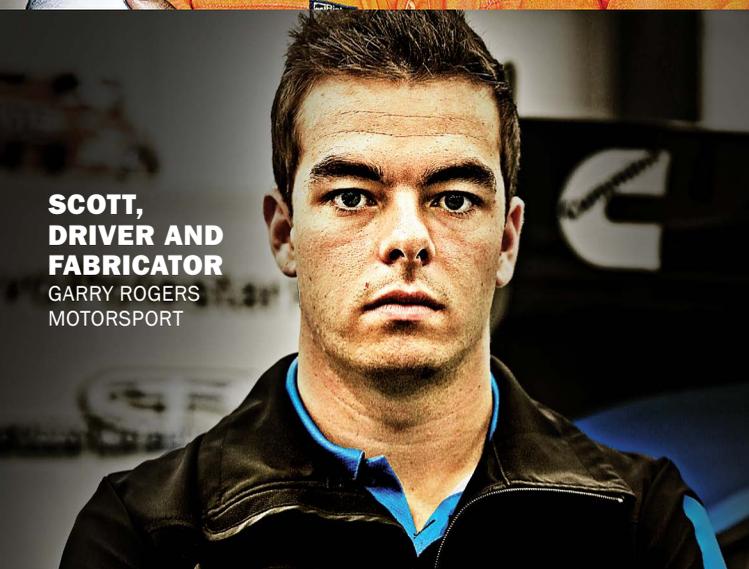
**WAYNE,
LEAD WELDER**
ALFABS GROUP



**BOB, NO 1
FABRICATOR**
TRIPLE EIGHT RACE
ENGINEERING



**MULE,
DIRECTOR**
MAVERICK WELDING



**SCOTT,
DRIVER AND
FABRICATOR**
GARRY ROGERS
MOTORSPORT

WELDERS OF OZ

**THE WELDERS
OF OZ AREN'T
YOUR AVERAGE
FABRICATORS OR
BOILERMAKERS,
THESE GUYS
ARE THE BEST
OF THE BEST.**

Every Welder of Oz has selected and relied on the WIA, Miller and Hobart brands to get the job done. When you're the best, you only use the best.

Trusted by the best



More info >
welding.com.au/weldersofoz

Trusted by the Best.

**FOR OVER 50 YEARS, WIA
HAS BEEN SUPPLYING THE
AUSTRALIAN MARKET WITH
PRODUCTS AND EXPERTISE
THAT CAN BE RELIED ON
TO DELIVER SUCCESS.**

Global Brands. Local Support.



**19
62**

WHERE WE STARTED

Established in 1962, WIA began as a small team of welding specialists, working to develop industry leading, innovative products. Today, we are a leading welding supplier because of our innovation and expertise.

**50
YEARS**

OUR PRODUCTS

50 years of experience gives us the expertise to develop products that deliver! The Austarc 16TC electrode and Weldmatic Fabricator have been industry icons for decades.



OUR GLOBAL PARTNERSHIPS

WIA is part of the global organisation ITW (Illinois Tool Works), a diversified manufacturing company. Our global partnerships give us access to the world's leading welding brands.



OUR INDUSTRY EXPERTISE

Both locally and globally our products are developed, delivered and supported by a team of industry experts who understand the needs of our customers.



OUR APPROACH

We work with our customers to develop the best products and deliver the best solutions. Our customers have trust in our products and company because of how we do things. That's why we're trusted by the best.



OUR BRANDS

Our brands include WIA electrodes, wires and equipment; Miller industrial welding equipment; Hobart filler metals and Bernard™ and Centerfire™ consumables.



USED BY THE BEST

Our brands are selected by welding professionals and companies who demand the most reliable products, in-depth knowledge and cost-effective solutions.



WE KNOW THE MARKET

We work hard to build our knowledge and understand what our market needs. Whether it's heavy engineering, mining or oil and gas, we know the market.

welding.com.au



> View our full product range at welding.com.au

> Download product manuals, data sheets & MSDS.

> Find your local WIA, Miller and Hobart Distributor.

The screenshot shows the website's header with logos for WIA (Trusted by the best), Miller, and HOBART. A search bar contains the phone number 1300 300 884. The main navigation menu includes HOME, EQUIPMENT, FILLER METALS, SAFETY, WHERE TO BUY, SUPPORT, and CONTACT. The main banner features 'New Australian Welding Guide' with a 'AVAILABLE TO DOWNLOAD' button. Below this is a 'Where To Buy' section with a search input for 'Your Suburb or Postcode' and a 'FIND' button. The footer contains four promotional tiles: 'Australian Welding Guide - Available to Download', 'New. Big Blue 700X Duo Pro', 'Claim your Miller XMT Cashback Now!', and 'Oil & Gas Brochure Available to Download'.

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KEY TO SYMBOLS



Requires Single Phase Supply



Requires Three Phase Supply



Alternating Direct Current Output



Constant Voltage Output



Constant Current Output



Direct Current Output



Constant Current and Constant Voltage Output



Welding Equipment

**HEAVY DUTY
WELDING EQUIPMENT
BUILT TO WITHSTAND
THE HARSH
ENVIRONMENTS
AND CONDITIONS.**





MIG Welders

Light Industrial



PRODUCT	THICKNESS OF MATERIAL TO BE WELDED						WELDING OUTPUT	APPLICATIONS
	THIN GAUGE	6MM	8MM	10MM	12MM	MULTI-PASS 12MM PLUS		
SINGLE PHASE								
Weldmatic 190	●	●	●				190 Amps @ 23.5 Volts, 15% Duty Cycle	Home workshops, trades, light industry, rural & hire fleets
Weldmatic 270	●	●	●	●	●		270 Amps @ 27.5 Volts, 20% Duty Cycle	Light industrial, medium fabrication, rural workshops, hire fleets, body shops & maintenance
Weldmatic 270C	●	●	●	●	●		270 Amps @ 27.5 Volts, 20% Duty Cycle	Light industrial, workshops, body shops & maintenance
THREE PHASE								
Weldmatic 356	●	●	●	●	●	●	355 Amps @ 32 Volts, 40% Duty Cycle 225 Amps @ 23.5 Volts, 100% Duty Cycle	Light to medium industrial fabrication, sheet metal, boat building, service, repair, maintenance & training centres/schools, & stainless steel & aluminium
Weldmatic 396	●	●	●	●	●	●	395 Amps @ 34 Volts, 30% Duty Cycle 250 Amps @ 26.5 Volts, 100% Duty Cycle	Medium to heavy fabrication, training centres/schools, stainless steel & aluminium
Weldmatic Fabricator	●	●	●	●	●	●	400 Amps @ 34 Volts, 45% Duty Cycle 270 Amps @ 27.5 Volts, 100% Duty Cycle	Medium to heavy fabrication including vehicle manufacture, ship building, aluminium & stainless steel construction, & the full range of steel fabrication

Weldmatic - Built to Perform

WELDMATIC IS KNOWN FOR ITS EXTREME RELIABILITY & PROFESSIONAL PERFORMANCE. FROM THE HEAVY DUTY DRIVE SYSTEMS TO THE INDUSTRIAL QUALITY GUNS, EVERY COMPONENT IS SELECTED & ENGINEERED TO ENSURE EACH WELDMATIC MACHINE PERFORMS.





FEATURE PACKED 4RD WIREFEEDER

W64 wirefeeder enables custom set-up to suit the job – including arc start, low wire speed, burnback, spot time, trigger latch, inch, purge, and pre and post gas.



QUICK & EASY GUN CABLE CONNECTION

All Weldmatic machines are supplied with an industrial quality gun and cable, complete with euro connector for easy fitting and removal.



FAN-ON-DEMAND COOLING

By only operating when needed, the fan uses less power and generates less noise. The result is a reduction in dust build-up inside the machine, meaning less maintenance time and longer component life.



GAS OR GASLESS

Suited to both gas shielded solid wires and gasless (self-shielding) flux cored wires. Industrial front mount strength connectors make the switch between shielded and gasless wires quick and easy.



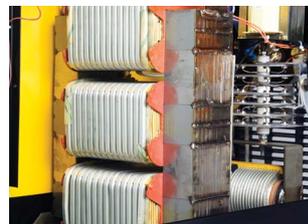
HEAVY DUTY 4 ROLL DRIVE SYSTEM

Now with larger, stronger gears and ball bearings to further enhance the reliability and performance of Weldmatic machines.



EASY SCREW SPOOL HUB

Every Weldmatic features the easy screw spool hub, allowing quick installation of 5 and 15kg spools.



HEAVY DUTY TRANSFORMER

Engineered for reliability, the heavy duty transformer delivers a smooth, consistent weld performance.



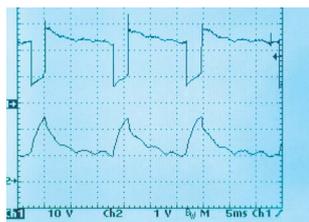
DUAL FRONT HANDLES

Dual handles make it easy to move your Weldmatic around the workshop, plus provide handy storage for interconnecting work leads.



LOW GAS CYLINDER TRAY

The low, easy to access rear tray, allows the gas bottle to be rolled on and off with ease, eliminating the need for lifting.



SUPERIOR INDUCTANCE TECHNOLOGY

Weldmatic machines have been engineered to deliver smooth arc performance right across the welding range.



TOOL TRAY

Fold down tool tray provides storage for gun contact tips and nozzles.



Every Weldmatic machine is backed by WIA's industry leading 'Gold Shield 3 Year Warranty', covering parts and labour, and supported by an Australia wide service network. You can be guaranteed you're buying reliability and performance.



Weldmatic 190

Part No: CP131-0

PORTABLE AND POWERFUL.

PORTABLE & POWERFUL

With the highest output in its class, the 190 will weld thicker materials, and handle a wider range of applications than normally expected from this size of machine.

IDEAL FOR A WIDE RANGE OF APPLICATIONS

From the home user and rural workshop, to light fabrication and hire fleets.

QUICK & EASY GUN CABLE ASSEMBLY

Supplied with a tradesman quality gun and cable complete with euro connector for easy fitting and removal.

EASY SET-UP & ADJUSTMENT

9 Voltage settings for precise welding control and weld setting chart for easy set-up and fine tuning of the machine.

GAS OR GASLESS

Suits gas shielded and gasless flux cored wires.



WELDS UP TO 8MM

Fillet weld up to 8mm of steel, stainless steel or aluminium.

BUILT-IN OPERATOR SAFETY

The power source features a built-in thermal protection device that will activate if the machine is operated beyond its safe thermal operating zone.

WELDMATIC WORKSHOP [OPTIONAL]

P/N AM353.

GAS BOTTLE TROLLEY [OPTIONAL]

P/N AM340.

PACKAGE INCLUDES

3m Euro Gun Cable
3m Work Lead
Gas Regulator
Drive Rollers: 0.6/0.8mm "V" groove; 0.9/1.2mm knurled (gasless)
Tips: 0.6/0.8/0.9/1.2
ES6 Sample Wire 0.8mm



PRIMARY VOLTAGE	RATED PRIMARY CURRENT	MAX. PRIMARY CURRENT	RECOMMENDED GENERATOR kVA	SUPPLY PLUG	RATED OUTPUT @ 40C (10 min)	WELDING CURRENT RANGE	WIRE SIZE RANGE (MM)	SHIPPING WEIGHT
240 Vac - 50Hz	15 Amps	36 Amps	10 kVA	15 Amps	190 A, 23.5 V, 15% Duty Cycle 145 A, 21.2 V, 25% Duty Cycle 72 A, 17.5 V, 100% Duty Cycle	30 - 190 Amps	0.6 - 0.9 solid 0.8 - 1.2 cored	40kg



Weldmatic Workshop™

Part No: AM353 [Mobile Welding Trolley for Weldmatic 190]

STORAGE AND CONVENIENCE.

CUSTOMISED SUPPORT PLATE

Designed to secure the Weldmatic 190 to the trolley for maximum stability.

CABLE HANGERS

Use the cable hangers to keep the work lead, gun cable and supply lead tidy.

HEAVY DUTY WHEELS

Industrial quality wheels and castors deliver smooth operation and durable performance to move your Weldmatic 190 where it's needed.

GAS BOTTLE TRAY

For easy storage of a gas cylinder, making it easier to move around the workshop. Suits E or D cylinders.

GAS CYLINDER CHAINS

Double chains to secure gas bottle and keep it stable and safe when being moved.

POWDER COATED EXTERIOR PANELS

Powder coated panels for long-lasting performance to resist harsh workshop environments.

SHIPPING INFORMATION

Weight: 29kg

Dimensions: 68cm long, 43cm wide & 58cm high.

EASY SLIDING STORAGE DRAWERS

With two drawers, the deep drawer is perfect for storing your welding helmet and gloves, while the top partitioned tray allows for easy storage and organisation of tips and nozzles.



* Weldmatic 190, gas cylinder and other accessories not included.



Weldmatic 270

Part No: CP132-1 - With W64 4 Roll Drive Wirefeeder

BIG ON POWER. BIG ON PERFORMANCE.

BIG ON POWER! BIG ON PERFORMANCE!

The Weldmatic 270 has the advantage when it comes to both power and performance. Pumping out a huge 270 Amps of genuine welding power, this machine outperforms the competition when it comes to welding performance.

WIDE RANGE OF APPLICATIONS

This heavy weight MIG suits light to medium fabrication, rural maintenance and hire fleets.

PACKED WITH PROFESSIONAL FEATURES

Packed with all the features you'd expect in an industrial three phase MIG machine, the single phase Weldmatic 270 is for the serious welder who wants results.

GAS OR GASLESS

Suits gas shielded and gasless flux cored wires.

SPOOL CAPACITY

5kg & 15kg.



WELDS UP TO 12MM

Fillet weld up to 12mm of mild steel, stainless steel or aluminium.

LOW GAS BOTTLE TRAY

The low, easy to access rear tray, allows the gas bottle to be rolled on and off with ease, eliminating the need for lifting.

REDUCED POWER CONSUMPTION

The Fan-on-Demand™ cooling system uses less power and generates less noise by only operating when needed, meaning improved efficiency, less maintenance and a safer working environment.

BUILT-IN OPERATOR SAFETY

The power source features a built-in thermal protection device that will activate if the machine is operated beyond its safe thermal operating zone.

PACKAGE INCLUDES

W64 4 Roll Drive Wirefeeder
3m Euro Gun Cable
5m Work Lead
10m Interconnecting Leads
Gas Regulator/Flowmeter
Drive Rollers: 0.9/1.2mm "V" groove; 0.9/1.2mm knurled (gasless)
Tips: 0.6/0.8/0.9/1.2



FINE ARC CONTROL 16 SETTINGS

PRIMARY VOLTAGE	RATED PRIMARY CURRENT	MAX. PRIMARY CURRENT	RECOMMENDED GENERATOR KVA	RATED OUTPUT @ 40C (10 min)	WELDING CURRENT RANGE	WIRE SIZE RANGE (MM)	SHIPPING WEIGHT
240 Vac - 50Hz	25 Amps	56 Amps	13.5 kVA	270 A, 27.5 V, 20% Duty Cycle	30 - 270 Amps	0.6 - 1.2 solid 0.8 - 1.2 cored	142kg
240 Vac - 50Hz	15 Amps	32 Amps	8 kVA	200 A, 24 V, 22% Duty Cycle Setting D-1 Max.	30 - 200 Amps	0.6 - 1.2 solid 0.8 - 1.2 cored	

15 Amp plug fitted for commissioning purposes only. 32 Amp plug to be installed by user to obtain full output.



Weldmatic 270C

Part No: CP136-1 - Compact Package

COMPACT MIG WITH INTEGRATED WIREFEEDER. IDEAL FOR WORKSHOPS.

COMPACT MIG PACKAGE

Compact MIG with feature packed integrated wirefeeder, enabling custom set-up to suit the job - including arc start, low wire speed, burnback, spot time, trigger latch, inch, purge and pre and post gas.

IDEAL FOR THE WORKSHOP ENVIRONMENT

Economical option for workshops where a separate wirefeeder isn't required. Works well under a bench.

PORTABLE

Easy to move around the workshop, with no messy leads between the power source and wirefeeder.

EASY TO ACCESS CONTROLS

All controls are located on the front panel - easy access to all wirefeeder features.

GAS OR GASLESS

Suits gas shielded and gasless flux cored wires.

BUILT-IN OPERATOR SAFETY

The power source features a built-in thermal protection device that will activate if the machine is operated beyond its safe thermal operating zone.

REDUCED POWER CONSUMPTION

The Fan-on-Demand™ cooling system uses less power and generates less noise by only operating when needed, meaning improved efficiency, less maintenance and a safer working environment.

LOW GAS BOTTLE TRAY

The low, easy to access rear tray, allows the gas bottle to be rolled on and off with ease, eliminating the need for lifting.

SPOOL CAPACITY

5kg & 15kg.



WELDS UP TO 12MM

Fillet weld up to 12mm of mild steel, stainless steel or aluminium.

PACKAGE INCLUDES

3.6m Euro Gun Cable
5m Work Lead
Gas Regulator/Flowmeter
Drive Rollers: 0.9/1.2mm "V"; 0.9/1.2mm knurled (gasless)
Tips: 0.6/0.8/0.9/1.2



FINE ARC CONTROL 16 SETTINGS & INTEGRATED WIREFEEDER

PRIMARY VOLTAGE	RATED PRIMARY CURRENT	MAX. PRIMARY CURRENT	RECOMMENDED GENERATOR KVA	RATED OUTPUT @ 40C (10 MIN)	WELDING CURRENT RANGE	WIRE SIZE RANGE (MM)	PRODUCT HEIGHT	SHIPPING WEIGHT
240 Vac - 50Hz	25 Amps	56 Amps	13.5 kVA	270 A, 27.5 V, 20% Duty Cycle	30 - 270 Amps	0.6 - 1.2 solid 0.8 - 1.2 cored	760mm 810mm (to top of handles)	127kg
240 Vac - 50Hz	15 Amps	32 Amps	8 kVA	200 A, 24 V, 22% Duty Cycle Setting D-1 Max.	30 - 200 Amps	0.6 - 1.2 solid 0.8 - 1.2 cored		

15 Amp plug fitted for commissioning purposes only. 32 Amp plug to be installed by user to obtain full output.



Weldmatic 356

Part No: CP133-1 - With W64 4 Roll Drive Wirefeeder

THE CHOICE OF MEDIUM FABRICATION WORKSHOPS.

PURE POWER

This industrial strength MIG delivers 356 Amps of pure power, plus all the features needed to maximise your productivity in one complete package.

PRODUCTIVITY ON DEMAND

Experience a boost in productivity thanks to the impressive 40% duty cycle at the rated output of 32 Volts.

INDUSTRIAL STRENGTH

The Weldmatic 356 is the ideal choice for medium industrial fabrication workshops, sheet metal, boat building, service, repair, maintenance and training centres/schools.

RELIABILITY

Fitted with an industrial standard 3.6m gun and cable for reliable welding performance and long operating life.

FINE ARC CONTROL

30 Voltage steps provide fine arc control over the whole operating range, from short arc to full spray transfer.

FLEXIBILITY

Reach around those awkward jobs with the fully enclosed separate wirefeeder.

DUAL FRONT HANDLES

Exclusive split handles with rubber grips designed to move the machine easily and allow composite work lead and MIG gun to be stored independently.

FAN ON DEMAND

The Fan-on-Demand™ uses less power and generates less noise by only operating fan when needed. This reduces dust build up inside the machine, meaning less maintenance time and increasing the life of components.

GAS OR GASLESS

Suits gas shielded and flux cored wires.

BUILT-IN OPERATOR SAFETY

The power source features a built-in thermal protection device that will activate if the machine is operated beyond its safe thermal operating zone.

PACKAGE INCLUDES

W64 4 Roll Drive Wirefeeder
3.6m Euro Gun Cable
Bernard™ Centerfire™ Tip 0.9mm
10m Work Lead
10m Interconnecting Leads
Gas Regulator/Flowmeter
Drive Rollers: 0.9/1.2mm “V” groove;
0.9/1.2mm knurled (gasless, flux cored)

SPOOL CAPACITY

5kg & 15kg.



COMES WITH BERNARD™
CENTERFIRE™ CONSUMABLES



PRIMARY VOLTAGE	RATED PRIMARY CURRENT	MAX. PRIMARY CURRENT	RECOMMENDED GENERATOR kVA	RATED OUTPUT @ 40C (10 MIN)	WELDING CURRENT RANGE	WIRE SIZE RANGE (MM)	SHIPPING WEIGHT
380/415 Vac - 50Hz 3 Phase	15 Amps	23 Amps	16.5 kVA	355 A, 32 V, 40% Duty Cycle 225 A, 25.3 V, 100% Duty Cycle	30 - 355 Amps	0.6 - 1.2 solid 0.8 - 1.6 cored	168kg



Weldmatic 396

Part No: CP134-1 - With W64 4 Roll Drive Wirefeeder

COMPLETE INDUSTRIAL MIG WELDING PACKAGE.

COMPLETE INDUSTRIAL MIG WELDING PACKAGE

This 396 Amp three phase MIG welder is ideal for medium to heavy fabrication, and all general industrial fabrication applications.

FLEXIBILITY & POWER

Optimal weld characteristics provide high quality results on steel, stainless steel and aluminium, plus the power to comfortably run all popular sizes of solid and flux cored wires.

> With the capacity to run 1.6mm flux cored wire, the 396 can handle a wide range of applications.

BUILT-IN OPERATOR SAFETY

The power source features a built-in thermal protection device that will activate if the machine is operated beyond its safe thermal operating zone.

FINE ARC CONTROL

30 Voltage steps for fine arc control over the whole operating range, from short arc to full spray transfer.

DUAL FRONT HANDLES

Exclusive split handles with rubber grips designed to move the machine easily and allow the composite work lead and MIG gun to be stored independently.

DIGITAL METERS

Digital Volt and Amp meters retain last weld information and allow precise set-up.

ULTRA-FAST WIRE BRAKING FEATURE

Featured on the 4RD wirefeeder - leaves the wire tip extra clean at the end of the weld.

Features include:

- > 'Normal' and Creep' start speed modes.
- > Cold wire inch/gas purge controls.
- > Pre/post gas timer controls.

GAS OR GASLESS

Suits gas shielded and flux cored wires.

SPOOL CAPACITY

5kg & 15kg.

PACKAGE INCLUDES

W64 4 Roll Drive Wirefeeder
3.6m Euro Gun Cable
Bernard™ Centerfire™ Tip 0.9mm
10m Work Lead
10m Interconnecting Leads
Gas Regulator/Flowmeter
Drive Rollers: 0.9/1.2mm "V", 0.9/1.2 knurled (gasless, flux cored, metal cored)



COMES WITH BERNARD™
CENTERFIRE™ CONSUMABLES



PRIMARY VOLTAGE	RATED PRIMARY CURRENT	MAX. PRIMARY CURRENT	RECOMMENDED GENERATOR kVA	RATED OUTPUT @ 40C (10 MIN)	WELDING CURRENT RANGE	WIRE SIZE RANGE (MM)	SHIPPING WEIGHT
380/415 Vac - 50Hz 3 Phase	15 Amps	27 Amps	20 kVA	395 A, 34 V, 30% Duty Cycle 250 A, 26 V, 100% Duty Cycle	19 - 395 Amps	0.8 - 1.6 solid 0.8 - 1.6 cored	172kg



Weldmatic Fabricator

Part No: CP135-1 - W64 4 Roll Drive Wirefeeder



The Complete Industrial Welding MIG Solution.

**THE WELDMATIC FABRICATOR
HAS BEEN THE INDUSTRY STANDARD
FOR OVER 30 YEARS WITH PROVEN
PERFORMANCE & RELIABILITY
THAT IS SECOND TO NONE.**



THE COMPLETE INDUSTRIAL WELDING SOLUTION.

SETTING THE INDUSTRY STANDARD FOR OVER 30 YEARS

APPLICATIONS

A complete industrial welding solution for medium and heavy industrial fabrication, including:

- > Vehicle manufacture.
- > Ship building.
- > Aluminium and stainless steel construction.
- > Full range of steel fabrication.

RUGGED & RELIABLE

This compact MIG has the power to comfortably run all popular sizes of solid and flux cored wires.

BUILT-IN OPERATOR SAFETY

The power source features a built-in thermal protection device that will activate if the machine is operated beyond its safe thermal operating zone.

SPOOL CAPACITY

Accommodates 5kg & 15kg spools – meaning greater flexibility across a range of applications.

PRECISE SET-UP & CONTROL

- > Digital Volt and Amp meters with last weld displayed for 30 seconds for precise set-up.
- > The separate ON/OFF switch enables weld settings to be retained.
- > 30 step Voltage controls enable fine tuning of weld settings for precise welding control.

REDUCED POWER CONSUMPTION & LESS NOISE

Fan-on-Demand™ cooling system uses less power and generates less noise by only operating when needed, meaning improved efficiency, less maintenance and a safer working environment.

GAS OR GASLESS

Suits gas shielded and flux cored wires.

PACKAGE INCLUDES

- W64 4 Roll Drive Wirefeeder
- 3.6m Euro Gun Cable
- Bernard™ Centerfire™ Tip 0.9mm
- 10m Work Lead
- 10m Interconnecting Leads
- Gas Regulator/Flowmeter
- Drive Rollers: 0.9/1.2mm “V”; 0.9/1.2mm knurled (gasless, flux cored, metal cored)



COMES WITH BERNARD™ CENTERFIRE™ CONSUMABLES



PRIMARY VOLTAGE	RATED PRIMARY CURRENT	MAX. PRIMARY CURRENT	RECOMMENDED GENERATOR kVA	RATED OUTPUT @ 40C (10 MIN)	WELDING CURRENT RANGE	WIRE SIZE RANGE (MM)	SHIPPING WEIGHT
415 Vac - 50Hz 3 Phase	18 Amps	30 Amps	20 kVA	400 A, 34 V, 45% Duty Cycle 270 A, 27.5 V, 100% Duty Cycle	40 - 400 Amps	0.6 - 1.6 solid 0.8 - 2.0 cored	200kg

WELDERS OF OZ

THE WELDERS OF OZ AREN'T YOUR AVERAGE
FABRICATORS OR BOILERMAKERS, THESE GUYS
ARE THE BEST OF THE BEST.

MULE, DIRECTOR
MAVERICK WELDING

More info >
welding.com.au/weldersofoz



Trusted by the best



Miller



HOBART



Engine Driven



PRODUCT	PROCESS						AUXILIARY OUTPUT						
	STICK	MIG*	FLUX CORED*	DC TIG	DC PULSE TIG	CAC-A	STD. GENERATOR POWER - WATTS (PEAK)	WELDING OUTPUT RANGE	ENGINE	VRD	RCD	AUX POWER OULETS	TYPICAL APPLICATIONS
Bobcat 250 [Petrol]	●	●	●	●		3/16" (4.8 mm)	11,000	40 - 250 AC 40 - 250 DC 17 - 28 CV	Kohler Petrol		●	2 x 15 Amp 1 x 32 Amp (All 240V)	Fabrication, Maintenance, Rural, Construction
Bobcat 250 [Diesel]	●	●	●	●		3/16" (4.8 mm)	11,000	40 - 250 AC 40 - 250 DC 17 - 28 CV	Kubota Petrol	Opt.	●	2 x 15 Amp 1 x 32 Amp (All 240V)	Fabrication, Structural, Maintenance, Repair, Piping
Trailblazer 325 [Petrol]	●	●	●	●	●	3/16" (4.8 mm)	12,000	10 - 325 DC 10 - 35 CV	Kohler Petrol	Opt.	●	2 x 15 Amp Sockets (All 240V)	Fabrication, Maintenance, Rural, Construction
Trailblazer 325 [Diesel]	●	●	●	●	●	3/16" (4.8 mm)	12,000	10 - 325 DC 10 - 35 CV	Kubota Petrol	Opt.	●	2 x 15 Amp Sockets (All 240V)	Fabrication, Structural, Maintenance, Repair, Piping
Big Blue 400X Pro	●	●	●	●		1/4" (6 mm)	12,000	20 - 400A CC 14 - 40V CV	CAT Diesel	●	●	2 x 15 Amp 1 x 32 Amp (All 240V)	Fabrication, Maintenance, Structural, Construction
Big Blue 600X	●	●	●	●		3/8" (9.5 mm)	5,500	20 - 600 DC 14 - 40 CV	Deutz Diesel	●	●	2 x 15 Amp Sockets	Construction, Structural, Maintenance
Big Blue 700X Duo Pro	●	●	●	●		1/2" (13 mm)	5,500 3P 4,000 1P	Paralleled 40 - 800A Each Side 20 - 400A	Deutz Turbo Diesel	●	●	2 x 15 Amp 240V 1PH 1 x 32 Amp 380V 3PH	Construction, Pipeline, Mining, Maintenance, Railroad
Big Blue Air Pak	●	●	●	●		1/2" (13 mm)	5,500 1P	20 - 750 DC 14 - 40 CV	Deutz Turbo Diesel	●	●	2 x 15 Amp Sockets	Construction, Mining, Maintenance, Railroad
Big Blue 800 Duo Air Pak	●	●	●	●		1/2" (13 mm)	1PH=15kW 3PH=27kW	20 - 800 CC 14 - 40 CV	Deutz Turbo Diesel	●	●	2 x 15 Amp 240V 1PH 1 x 32 Amp 400V 3PH	Construction, Structural, Maintenance, Mining

* Optional wirefeeder required
 Capability ● Designed for this process



Engine Specs

**BOBCAT 250 PETROL**

ENGINE BRAND & WARRANTY	HP	TYPE	WELD SPEED	IDLE SPEED	FUEL CAPACITY	OIL CAPACITY	STANDARD SHUTDOWNS
Kohler: 3-year Manufacturer's Warranty	23 HP	Twin-cylinder, four-cycle overhead valve, industrial air-cooled, gasoline (carburettor)	3600 RPM	2300 RPM	45 L	1.4 L	Low Oil Pressure

BOBCAT 250 DIESEL

ENGINE BRAND & WARRANTY	HP	TYPE	WELD SPEED	IDLE SPEED	FUEL CAPACITY	OIL CAPACITY	STANDARD SHUTDOWNS
Kubota: 2-year 2000 hours one year minor components	19 HP at 3600 RPM	Three-cylinder, industrial liquid-cooled, diesel	3600 RPM	2450 RPM	45 L	3.2 L	High Coolant Temperature, Low Oil Pressure, Low Fuel

TRAILBLAZER 325 (PETROL)

ENGINE BRAND & WARRANTY	HP	TYPE	WELD SPEED	IDLE SPEED	FUEL CAPACITY	OIL CAPACITY	STANDARD SHUTDOWNS
Kohler: 3-year Manufacturer's Warranty	25 HP at 3600 RPM	Twin-cylinder, four-cycle overhead valve, industrial air-cooled, gasoline (carburettor)	Auto-Speed™ 2400, 2800, 3200 or 3600 RPM	2400 RPM	45 L	1.4 L	Low Oil Pressure

TRAILBLAZER 325 (DIESEL)

ENGINE BRAND & WARRANTY	HP	TYPE	WELD SPEED	IDLE SPEED	FUEL CAPACITY	OIL CAPACITY	STANDARD SHUTDOWNS
Kubota: 2-year 2000 hours one year minor components	24.8 HP at 3600 RPM	3-cylinder, industrial liquid-cooled, diesel	Auto-Speed™ 2400, 2800, 3200 or 3600 RPM	2400 RPM	45 L	3.7 L	High Coolant Temperature, Low Oil Pressure, Low Fuel

BIB Blue 400X PRO

ENGINE BRAND	HP	TYPE	FEATURES	ENGINE SPEEDS	CAPACITIES	AUTOMATIC ENGINE SHUTDOWN
Caterpillar C1.5	21.7	3-cylinder, industrial liquid-cooled, diesel	EPA Tier 4i compliant, indirect-injected, liquid-cooled engine. Right-side service access with intervals of 250 hrs for oil and filters.	1850 RPM weld	Fuel: 43.5 L Oil: 5.7 L Coolant: 5.7 L	Low Oil Pressure, High Coolant Temperature, Low Fuel Level



BIG BLUE AIR PAK - ENGINE

ENGINE BRAND	HP	TYPE	FEATURES	ENGINE SPEEDS	CAPACITIES	AUTOMATIC ENGINE SHUTDOWN
Deutz TD2011L04w	63.4	Four-cylinder, industrial, liquid (oil) cooled engine	EPA Tier 4i compliant, turbocharged, direct-injected, liquid-cooled (oil) engine. Right-side service access with 500 hr intervals for oil and filters.	1850 Run 1250 Idle	Fuel - 95 L Oil - 10.4 L	Low Oil Pressure, High Coolant Temperature, Low Fuel Level

BIG BLUE AIR PAK – COMPRESSOR

COMPRESSOR BRAND	FEATURES	FREE AIR DELIVERY AT 1850 RPM	FREE AIR DELIVERY AT 1235 RPM	WORKING PRESSURE CONSTANT	DUTY CYCLE	OIL CAPACITY	AUTOMATIC COMPRESSOR SHUTDOWNS
Ingersoll Rand CE55 G1	Rotary screw with electric clutch for on/off. Oil change intervals 500 hrs (same as engine). Life expectancy 30,000 hrs.	60 cfm (1.70 m ₃ / min)	40 cfm (1.13 m ₃ / min) Idle	100 PSIG 7 bar	100%	4.7 L	Oil Temperature

BIG BLUE 800X DUO AIR PAK

ENGINE BRAND	HP	TYPE	FEATURES	ENGINE SPEEDS	CAPACITIES	AUTOMATIC ENGINE SHUTDOWN
Deutz TD2011L04o	63.4	Turbo-charged four-cylinder, liquid-cooled industrial diesel	EPA Tier 4i compliant	Idle: 1350 RPM Weld: 1800 RPM	Fuel: 95 L Oil: 10.4 L Coolant: Integrated Oil	Low Oil Pressure, High Coolant Temperature, Low Fuel Level

BIG BLUE 800X DUO AIR PAK - COMPRESSOR

COMPRESSOR BRAND	FEATURES	FREE AIR DELIVERY AT 1850 RPM	FREE AIR DELIVERY AT 1235 RPM	WORKING PRESSURE CONSTANT	DUTY CYCLE	OIL CAPACITY	AUTOMATIC COMPRESSOR SHUTDOWNS
Ingersoll Rand CE55 G1	Rotary screw with electric clutch for on/off. Oil change intervals 500 hrs (same as engine). Life expectancy 30,000 hrs.	60 cfm (1.70 m ₃ / min)	40 cfm (1.13 m ₃ / min) Idle	100 PSIG 7 bar	100%	3.79 L	Oil Temperature



ENGINE DRIVEN



Bobcat 250

Part No: MR907500001-1 [Kohler Petrol Engine]



REDESIGNED

QUIETER. SMALLER. LIGHTER.




Up to
33%
Sound
Reduction

IMPROVED! UP TO 33% QUIETER

- > Significant improvements in sound level and quality offer better jobsite communication, making for a safer work environment.
- > The engine has been rotated toward the front to create efficient airflow and quieter operation. Now you can start the job earlier and work around hospitals, businesses and residential areas.



12cm
Shorter
Up to
24kg
Lighter

IMPROVED! SMALLER & LIGHTER DESIGN

Takes up less space on trucks and trailers - leaving more room on your truck for other equipment and tools.



REVERSED GENERATOR AIRFLOW

Exclusive engine and generator packaging design operates cooler and more efficiently. The engine is rotated towards the front to create more efficient airflow. More efficient airflow and exclusive engine location are significant contributors to reduced sound level and size. Hot air recirculation is eliminated when machine is mounted in tight spots, and internal parts are kept cool for optimal performance.



IMPROVED! EASIER MAINTENANCE

Maintenance is now faster and easier. With front panel maintenance displays, you know when your equipment needs to be serviced.

- > Oil checks can be performed from the top by the front panel.
- > Single-side fuel fill and oil drain/filter.
- > Tool-less panels that allow for quick access.



Air filter
Oil fill
Oil level check



Fuel fill
Oil filter
Oil drain
Fuel filter

APPLICATIONS
Maintenance
Repair
Rural
Fabrication
Structural Steel Work
Stand-Alone Generator

PROCESSES
Stick (SMAW)
Flux-Cored (FCAW)
MIG (GMAW)
DC TIG (GTAW)
Air Carbon Arc (CAC-A)
Cutting and Gouging (4.8mm carbons)
Air Plasma Cutting and Gouging with Optional Spectrum Models

LONG RUNTIMES

Large 45L fuel capacity means many hours of run time before refuelling.

VERSATILE AC AND DC WELD OUTPUT

Provides quality welds on all types of metals. DC is smooth and easy to run while AC Stick is used when arc blow occurs.

MULTI-PROCESS CAPABILITY

MIG, Stick, DC, AC, TIG

AUXILIARY OUTPUT*

- > 2 X 15 Amp Sockets.
- > RCD.
- > 1 X 32 A 240 V 1PH 60Hz.

SMOOTH GENERATOR POWER

- > Revolutionary ten degree skewed rotor design optimises generator performance.
- > Typical equipment which can be run includes hand tools, circular saw, air compressor and flood lights.

3 YEAR WARRANTY

Welder/generator is warranted by Miller for 3 years, parts and labour. For details, refer to Miller's True Blue warranty statement. Engine is warranted separately by engine manufacturer.

*Generator auxiliary power is 60Hz, and intended for operating equipment associated with welding, such as angle grinders, drills and floodlights. Some Australian 50Hz equipment incorporating induction motors, such as pumps, fans, air compressors, refrigeration or air-conditioners, may not operate correctly and could be damaged. Refer to appliance supplier or manufacturer to confirm suitability.

WELDING MODE	PROCESS	AMP/VOLT RANGE	RATED OUTPUT	GENERATOR POWER	DIMENSIONS (MM)	WEIGHT (WITHOUT FUEL)
CC/AC	Stick/TIG	40 - 140 A 60 - 160 A 80 - 225 A	225 A at 25 V, 100% Duty Cycle	Peak: 11,000 Watts Continuous: 9,500 Watts 44 A, 240 VAC, 60 Hz	H: 711 H: 832 (to top of exhaust) W: 508 D: 1029	227kg
CC/DC	Stick/TIG	100 - 250 A	250 A at 25 V, 100% Duty Cycle			
CV/DC	MIG/FCAW	17 - 22 V 20 - 28 V	250 A at 25 V, 100% Duty Cycle			

Bobcat 250

Part No: MR907565001-1 [Kubota Diesel Engine]

Part No: MR907565001-2 (with VRD) [Kubota Diesel Engine]



IMPROVED DESIGN. NOW SMALLER & LIGHTER.



**IMPROVED!
SMALLER &
LIGHTER DESIGN**

Takes up less space on trucks and trailers - leaving more room on your truck for other equipment and tools.

**IMPROVED! EASIER
MAINTENANCE**

With front panel maintenance displays, you know when your equipment needs to be serviced.

LONG RUNTIMES

Large 45L fuel capacity means many hours of run time before refuelling.

**VERSATILE AC AND
DC WELD OUTPUT**

Provides quality welds on all types of metals. DC is smooth and easy to run while AC Stick is used when arc blow occurs.

**DESIGNED FOR
RELIABILITY**

- > Copper windings and iron generator components for a quality built machine.
- > Lugged - not soldered - heavy internal leads for better field durability.
- > Superior cooling technology for maximum performance and engine life.
- > Super-tough armour to protect the welder/generator from accidental impact.
- > Lift hook integrated into the centre frame, which bolts to the machine's base for greater durability.

**MULTI-PROCESS
CAPABILITY**

MIG, Stick, DC, AC, TIG.

**SMOOTH
GENERATOR POWER**

Revolutionary ten degree skewed rotor design optimises generator performance. Typical equipment which can be run includes hand tools, circular saw, air compressor and flood lights.

APPLICATIONS
Maintenance
Repair
Rural
Fabrication
Structural Steel Work
Stand-Alone Generator

PROCESSES
Stick (SMAW)
Flux-Cored (FCAW)
MIG (GMAW)
DC TIG (GTAW)
Non-Critical (GTAW)
Air Carbon Arc (CAC-A)
Cutting and Gouging (4.8mm Carbons)
Air Plasma Cutting and Gouging with Optional Spectrum Models

AUXILIARY OUTPUT*

- > 2 X 15 Amp Sockets.
- > RCD.
- > 1 X 32 A 240 V 1PH 60Hz.

3 YEAR WARRANTY

Welder/generator is warranted by Miller for 3 years, parts and labour. For details, refer to Miller's True Blue warranty statement. Engine is warranted separately by engine manufacturer.



*Generator auxiliary power is 60Hz, and intended for operating equipment associated with welding, such as angle grinders, drills and floodlights. Some Australian 50Hz equipment incorporating induction motors, such as pumps, fans, air compressors, refrigeration or air-conditioners, may not operate correctly and could be damaged. Refer to appliance supplier or manufacturer to confirm suitability.

WELDING MODE	PROCESS	AMP/VOLT RANGE	RATED OUTPUT	GENERATOR POWER	DIMENSIONS (MM)	WEIGHT (WITHOUT FUEL)
CC/AC CC/DC	Stick/TIG	40 - 130 A 60 - 160 A 80 - 225 A 100 - 250 A	250 A at 25 V, 100% Duty Cycle	Peak: 11,000 Watts Continuous: 9,500 Watts	H: 711 H: 873 (to top of exhaust) W: 508 D: 1153	289kg
CV/DC	MIG/FCAW	17 - 22 V 20 - 28 V	250 A at 28 V, 100% Duty Cycle	44 A, 240 VAC, 60 Hz		



ENGINE DRIVEN



Trailblazer 325

Part No: MR907510001-1 [Kohler Petrol Engine]

Part No: MR907566001-1 [Kubota Diesel Engine]

Part No: MR907566001-2 (with VRD) [Kubota Diesel Engine]

NEW PETROL MODEL - NOW 49KG LIGHTER. NEW DIESEL MODEL - NOW 46KG LIGHTER.

DUAL GENERATOR SYSTEM

One for welding and one for generating power - meaning no interaction between tools and the welding arc.

4-POLE 3 PHASE WELDING GENERATOR

Utilises a 4-pole, 3-phase generator to produce the best welding arc.

ACCU-RATED™ 12,000 WATTS OF USABLE PEAK POWER

Separate 12,000 Watt single phase generator cranks out enough power for most applications.

SUPERIOR ARC PERFORMANCE

- > Three Stick modes – XX10, XX18 and Gouge.
- > Two wire modes – Solid & Flux Cored.
- > Excellent MIG/FCAW arc performance.
- > Lift-Arc™ TIG with Auto-Crater™ and Auto-Stop™ and Pulse.

SELF-CALIBRATING DIGITAL METERS

- > Preset and actual Amperage/Voltage.
- > Process settings.
- > Maintenance functions: hour meter, oil change interval and RPMs.

AUTO-SPEED™ TECHNOLOGY

> Traditional high speed welder/generators always run at maximum speed (3600 RPM) while welding. Auto-Speed technology automatically adjusts the engine speed to match your actual weld load requirements.

> When more power is needed, the engine will automatically ramp up. By automatically varying the engine speed, fuel consumption and costs are reduced.

INNOVATIVE DESIGN

For quieter operation, reduced size and weight and easier maintenance.

APPLICATIONS

- Structural Steel Work
- Sheet Metal
- Repair
- Rental
- Pipe
- Fabrication
- Maintenance

PROCESSES

- Stick (SMAW)
- MIG (GMAW)
- Flux Cored (FCAW)
- DC TIG/Pulsed TIG (GTAW-P)
- Air Carbon Arc (CAC-A)
- Air Plasma Cutting and Gouging with Optional Spectrum Models

SUPER-TOUGH PROTECTIVE ARMOUR WITH COVERS

High-impact resistance in all temperatures and is chemical-resistant.

AUXILIARY POWER (MR907510001-1)*

- > 2 X 15 Amp Sockets.
- > RCD.

3 YEAR WARRANTY

Welder/generator is warranted by Miller for 3 years, parts and labour. For details, refer to Miller's True Blue warranty statement. Engine is warranted separately by engine manufacturer.



**Generator auxiliary power is 60Hz, and intended for operating equipment associated with welding, such as angle grinders, drills and floodlights. Some Australian 50Hz equipment incorporating induction motors, such as pumps, fans, air compressors, refrigeration or air-conditioners, may not operate correctly and could be damaged. Refer to appliance supplier or manufacturer to confirm suitability.*

WELDING MODE	PROCESS	AMP/VOLT RANGE	RATED OUTPUT	GENERATOR POWER	DIMENSIONS (MM)	WEIGHT (WITHOUT FUEL)
CC/DC	Stick/TIG	10 - 325 A	325 A at 28 V (Petrol) 325 A at 33 V (Diesel), 100% Duty Cycle	Peak: 12,000 Watts Continuous: 10,500 Watts	H: 711 H: 832 (to top of exhaust) W: 508 D: 1029	209kg (Petrol model) 281kg (Diesel model)
CV/DC	MIG/FCAW	10 - 325 V	325 A at 28 V (Petrol) 325 A at 33 V (Diesel), 100% Duty Cycle	240V, 60Hz		

Big Blue® 400X Pro

Part No: MR907630-1 [CAT Diesel Engine]



SUPERIOR ARC PERFORMANCE

- > Four pre-set DIG settings (Stick).
- > Hot Start™ (Stick).
- > Lift-Arc™ TIG with Auto-Stop™ and Crater-out.
- > MIG/FCAW arc performance.

AUTO REMOTE SENSE™

Detects if a remote control is plugged into the 14-pin receptacle and eliminates confusion of a remote/panel switch.

QUIET OPERATION

Improves work site communication.

SIMPLE-TO-SET CONTROLS

No elaborate procedure, just select process and weld!

THE VAULT

Ultimate control board reliability. Solid-state control technology, housed in a sealed vault. The vault's sealed connections are made through watertight plugs that make these components impenetrable to dust and moisture.

*Generator auxiliary power is 60Hz, and intended for operating equipment associated with welding, such as angle grinders, drills and floodlights. Some Australian 50Hz equipment incorporating induction motors, such as pumps, fans, air compressors, refrigeration or air-conditioners, may not operate correctly and could be damaged. Refer to appliance supplier or manufacturer to confirm suitability.

CATERPILLAR HEAVY DUTY LOW-SPEED INDUSTRIAL ENGINE

Designed to operate for 10,000 hours before the first basic overhaul.

METER MAINTENANCE DISPLAYS

- > Fuel gauge.
- > Hour meter function.
- > Oil change interval.
- > High coolant temperature low oil pressure shut downs.
- > Low fuel shutdown - engine shuts down before system runs out of fuel, making restarts easy.

AUXILIARY POWER*

- > 2 X 15 Amp Sockets.
- > 1 x 32 Amp Socket.
- > RCD.

VRD TO CAT C AS1674.2

3 YEAR WARRANTY

Welder/generator is warranted by Miller for 3 years, parts and labour. For details, refer to Miller's True Blue warranty statement. Engine is warranted separately by engine manufacturer.

APPLICATIONS
Mechanical Contractors
Structural Steelwork
Fabrication
Maintenance
Repair
Rental
Construction

PROCESSES
Stick (SMAW)
MIG (GMAW)
Flux Cored (FCAW)
DC TIG (GTAW)
Air Carbon Arc (CAC-A)
Rated: 4.8mm (3/16 in) Carbons, Capable: 6.4mm (1/4 in) Carbons
Air Plasma Cutting and Gouging with Optional Spectrum Models

MODEL OPTIONS	PART NO
With VRD, Emergency Stop, Double Pol Battery Isolator & Lockout Device	MR907630-2
With VRD, Roll Frame & Spill Tray Assembly, Emergency Stop, Double Pol Battery Isolator & Lockout Device	MR907630-3



WELDING MODE	AMP/VOLT RANGE	RATED OUTPUT	GENERATOR POWER	DIMENSIONS (MM)	WEIGHT* (WITHOUT FUEL)
CC/DC	20 - 400 A	300A at 32 VDC, 100% Duty Cycle 350A at 27 VDC, 100% Duty Cycle	Peak: 12,000 Watts Continuous: 10,000 Watts	H: 813 W: 667 D: 1422	Net: 458kg Shipping: 481kg
CV/DC	14 - 40 V	400A at 24 VDC, 100% Duty Cycle	42 A, 240 VAC, 60 Hz		*Additional 37kg when fuel tank is full



ENGINE DRIVEN



Big Blue® 600X

Part No: MR907192-1 [Deutz Diesel Engine]



DESIGNED FOR FLEET OWNERS THAT DEMAND THE ULTIMATE IN RELIABILITY.

THREE-PHASE ROTATING FIELD

Efficiently produces smooth DC weld output using 20 - 30% less fuel than a rotating armature-type DC generator.

ENCLOSED ROBUST CASE DESIGN

Protects internal components from impact and allows air flow to cool and prolong the life of the engine. Also reduces sound levels.

ARC-DRIVE™

Automatically enhances Stick welding, especially on pipe, by focusing the arc and preventing the electrode from going out.

HOT-START™

Provides positive Stick electrode starts making it easy to start all types of electrodes and it also works great for bead tie-ins.

REMOTE TOOL-LESS OIL DRAIN

Allows oil to be drained without getting under the engine and reduces the chance of oil spillage.

QUICK AND EASY MAINTENANCE

Single-side access to oil level check, oil fill, oil filter, fuel filter and air cleaner.

HEAVY-DUTY LOW SPEED INDUSTRIAL DIESEL ENGINE

Designed, built and proven to operate over 10,000 hours before the first basic overhaul.

WEATHERPROOF LEXAN® NAMEPLATE

Resists cracking and fading, and is color-coded for ease of operation.

AUXILIARY POWER*

- > 2 X 15 Amp Sockets.
- > RCD.

VRD TO CAT C AS1674.2

APPLICATIONS

- Heavy Construction
- Structural Steel
- Maintenance and Repair Rigs
- Mining Maintenance
- Process Piping
- Sheet Metal

PROCESSES

- Stick (SMAW)
- MIG (GMAW)
- Flux Cored (FCAW)
- DC TIG (GTAW)
- Submerged Arc (SAW)
- Air Carbon Arc (CAC-A)

METER MAINTENANCE DISPLAYS

- > Fuel gauge.
- > Hour meter function.
- > Oil change interval.
- > High coolant temperature and low oil pressure shutdowns.
- > Low fuel shutdown - engine shuts down before system runs out of fuel, making restarts easy.

3 YEAR WARRANTY

Welder/generator is warranted by Miller for 3 years, parts and labour. For details, refer to Miller's True Blue warranty statement. Engine is warranted separately by engine manufacturer.



**Generator auxiliary power is 60Hz, and intended for operating equipment associated with welding, such as angle grinders, drills and floodlights. Some Australian 50Hz equipment incorporating induction motors, such as pumps, fans, air compressors, refrigeration or air-conditioners, may not operate correctly and could be damaged. Refer to appliance supplier or manufacturer to confirm suitability.*

WELDING MODE	AMP/VOLT RANGE	RATED OUTPUT	GENERATOR POWER	DIMENSIONS (MM)	WEIGHT* (WITHOUT FUEL)
CC/CV/DC	20 - 600 A	500 A at 25 V, (20 kW), 100% Duty Cycle 550 A at 34 V, (18.7 kW), 60% Duty Cycle 600 A at 30 V, (18 kW), 40% Duty Cycle	Peak: 5,500 Watts Continuous: 4,000 Watts 17 A, 240 VAC, 60 Hz	H: 1092 W: 724 D: 1654	Shipping: 769kg *Additional 86kg when fuel tank is full



ENGINE DRIVEN



Big Blue® 700X Duo Pro

Part No: MR907520001-1 (with dual VRD) [Deutz Diesel Engine]



Dual Operator Engine Drive with 3 Phase Power.

MULTI-ARC WELDING IS NOW SIMPLER & MORE VERSATILE.



3 PHASE POWER



2 ARCS

INDEPENDENT AUXILIARY GENERATOR

> One 5500 Watt peak/ 4000 Watt continuous 240V single phase generator, regardless of weld output.

> Second generator provides 27,000 Watts peak/20,000 Watts continuous 3 phase power (380 - 415V).

700A SINGLE ARC CAPABILITY

> Two outputs can be paralleled, providing a single 700A output.

> Suitable for Arc Air Gouging or Sub Arc Process.

ENCLOSED ROBUST CASE DESIGN

Protects internal components from impact and allows air flow to cool and prolong the life of the engine, while reducing sound levels.

HOT-START™

Provides positive Stick electrode starts making it easy to start all types of electrodes, plus it works well for bead tie-ins.

QUICK AND EASY MAINTENANCE

Single-side access to oil level check, oil fill, oil filter, fuel filter and air cleaner.



REMOTE TOOL-LESS OIL DRAIN

Allows oil to be drained without getting under the engine and reduces the chance of oil spillage.

HEAVY-DUTY LOW SPEED INDUSTRIAL DIESEL ENGINE

Designed, built and proven to operate over 10,000 hours before the first basic overhaul.

WEATHERPROOF LEXAN® NAMEPLATE

Resists cracking and fading, and is color-coded for ease of operation.

METER MAINTENANCE DISPLAYS

- > Fuel gauge.
- > Hour meter function.
- > Oil change interval.
- > High coolant temperature and low oil pressure shutdowns.
- > Low fuel shutdown – engine shuts down before system runs out of fuel, making restarts easy.

STANDARD FEATURES INCLUDE:

Stick, MIG, Flux Cored, Lift-Arc™ TIG and digital preset weld meters, output contactor control and automatic idle.

AUXILIARY POWER*

- > 1 x 380 V 32 Amp Sockets.
- > 2 X 240 V 15 Amp Sockets.
- > RCD.

VRD TO CAT C AS1674.2.

3 YEAR WARRANTY

Welder/generator is warranted by Miller for 3 years, parts and labour. For details, refer to Miller’s True Blue warranty statement. Engine is warranted separately by engine manufacturer.

*Generator auxiliary power is 60Hz, and intended for operating equipment associated with welding, such as angle grinders, drills and floodlights. Some Australian 50Hz equipment incorporating induction motors, such as pumps, fans, air compressors, refrigeration or air-conditioners, may not operate correctly and could be damaged. Refer to appliance supplier or manufacturer to confirm suitability.

MODEL OPTIONS	PART NO
Dual VRD, Emergency Stop, Double Pol Battery Isolator & Lockout Device	MR907520001-2
Dual VRD, Roll Frame & Spill Tray Assembly, Emergency Stop, Double Pol Battery Isolator & Lockout Device	MR907520001-3

APPLICATIONS
Mining Maintenance
Cross Country Pipelines
Process Piping
Structural Steel
Heavy Construction

PROCESSES
Stick (SMAW)
Flux Cored (FCAW)
MIG (GMAW)
DC TIG (GTAW)
Air Carbon Arc (CAC-A)

WELDING MODE	AMP/VOLT RANGE	RATED OUTPUT	GENERATOR POWER	DIMENSIONS (MM)	WEIGHT* (WITHOUT FUEL)
CC/DC	40 – 800 A (Paralleled)	500 A at 40 VDC, 100% Duty Cycle 700 A at 28 VDC, 60% Duty Cycle	Peak: 5500 Watts Continuous: 4000 Watts Three-phase: 27 kW Peak/20 kW Continuous or Single-Phase: 19 kW Peak/12 kW Continuous	H: 1092 mm H: 1270 mm (to top of exhaust) W: 724 mm D: 1654 mm	Net: 784kg Shipping: 799kg <i>*Additional 86kg when fuel tank is full</i>
	20 – 400 A (Each Side)	300 A at 32 VDC, 100% Duty Cycle (Each Side) 400 A at 36 VDC, 40% Duty Cycle (One Side only)			
CV/DC	14 – 40 V (Paralleled)	500 A at 39 VDC, 100% Duty Cycle 700 A at 28 VDC, 60% Duty Cycle			
	14 – 40 V (Each Side)	300 A at 29 VDC, 100% Duty Cycle (Each Side) 400 A at 34 VDC, 40% Duty Cycle (One Side only)			



ENGINE DRIVEN



Big Blue® Air Pak™

Part No: MR907062011-1 [Deutz Diesel Engine] [VRD < 1 sec]

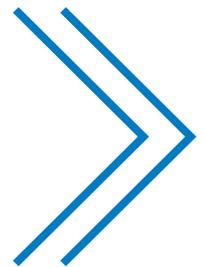
Part No: MR907062011-4 [Deutz Diesel Engine] [VRD < 300 m sec]

Part No: MR907062011-5 [Deutz Diesel Engine] [No VRD]



Weld. Air. Power.

A COMPLETE MOBILE WELDING, AIR & POWER WORKSHOP FOR ON-SITE MAINTENANCE & FABRICATION.



THE VAULT

Ultimate control board reliability. Solid-state control technology, housed in a sealed vault. The vault's sealed connections are made through watertight plugs that make these components impenetrable to dust and moisture.



ULTRA-RELIABLE INDUSTRIAL ROTARY SCREW AIR COMPRESSOR

Belt-driven with automatic belt tensioner with a life expectancy of 30,000 hours.



**WELDER/GENERATOR/
AIR COMPRESSOR**

Provides a go anywhere solution for field jobs requiring welding, gouging or cutting, compressed air and AC power generation.

**INDEPENDENT
COMPRESSOR
CONTROLS**

On/off switch for applications not requiring compressed air. At idle speed will produce 100 PSI at 40 CFM.

**ENCLOSED ROBUST
CASE DESIGN**

Protects internal components from impact and allows air flow to cool and prolong the life of the engine. Also reduces sound levels.

**WEATHERPROOF
LEXAN® NAMEPLATE**

Resists cracking and fading, and is color-coded for ease of operation.

LOW MAINTENANCE

Easy single-side access to engine and 500 hour oil changes for both engine and compressor.

QUIET OPERATOR

At only 70 dB (95 Lwa) when idle, 79 dB (104 Lwa) at maximum output. Improves work site communications.

**HEAVY DUTY LOW-
SPEED INDUSTRIAL
TURBOCHARGED
DIESEL ENGINE**

Provides ample power at high altitudes.

**METER MAINTENANCE
DISPLAYS**

- > Fuel gauge.
- > Hour meter function.
- > Oil change interval.
- > High coolant temperature and low oil pressure shutdowns.
- > Low fuel shutdown – engine shuts down before system runs out of fuel, making restarts easy.

HOT START™

Provides positive Stick electrode starts to make it easy to start all types of electrodes.

ARC-DRIVE™

Automatically enhances Stick welding, especially on pipe, by focusing the arc and preventing the electrode from going out.

**LOW OCV - VOLTAGE
REDUCTION DEVICE**

Provides open circuit Voltage below 35 Volts for increased operator safety.

**INDEPENDENT
GENERATOR POWER**

4000 Watts of continuous output for lighting and power tools, even while welding at 500 Amps.

AUXILIARY OUTPUT*

- > 2 X 240 Volt Sockets.
- > RCD.

VRD TO CAT C AS1674.2

3 YEAR WARRANTY

Welder/generator is warranted by Miller for 3 years, parts and labour. For details, refer to Miller's True Blue warranty statement. Engine is warranted separately by engine manufacturer.

APPLICATIONS

- Mining Maintenance
- Railroad Maintenance
- Maintenance & Repair Rigs

PROCESSES

- DC Stick (SMAW)
- MIG (GMAW)
- Flux Cored (FCAW)
- DC TIG (GTAW)
- Submerged Arc (SAW)
- Air Carbon Arc (CAC-A) 1/2 in (12.7mm) Carbons
- Air Compressor

*Generator auxiliary power is 60Hz, and intended for operating equipment associated with welding, such as angle grinders, drills and floodlights. Some Australian 50Hz equipment incorporating induction motors, such as pumps, fans, air compressors, refrigeration or air-conditioners, may not operate correctly and could be damaged. Refer to appliance supplier or manufacturer to confirm suitability.

WELDING MODE	AMP/VOLT RANGE	RATED OUTPUT	GENERATOR POWER	DIMENSIONS (MM)	WEIGHT (WITHOUT FUEL)
CC/DC	20 - 750 A	600 A at 44 V, (26.4 kW), 40% Duty Cycle 550 A at 42 V, (23.1 kW) 60% Duty Cycle 500 A at 40 V, (20 kW), 100% Duty Cycle	Peak: 5,500 Watts Continuous: 4,000 Watts 17 A, 240 VAC, 60 Hz while welding	H: 1092 W: 724 D: 1654	Net: 876kg Shipping: 899kg
CV/DC	14 - 40 V	500 A at 40 V, (20 kW), 100% Duty Cycle			

 ENGINE DRIVEN

CC
CV

DC

1
Phase

3
Phase



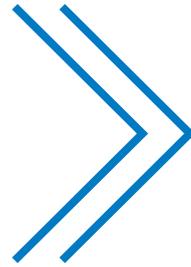
Big Blue® 800X Duo Air Pak™

Part No: MR907536-1 [with VRD]



Built Tough!

THREE PHASE POWER. MULTI-ARC WELDING.



NEW PRODUCT

AVAILABLE LATE 2014

 **3 PHASE POWER**  **2 ARCS**  **AIR**



MORE POWER

33 percent increase in rated output equals 800 Amps of weld power and 27,000 watts of generator power.

MULTI-ARC WELDING

One dependable engine – two independent arcs with up to 400 Amps each. Or plug in an additional inverter for a true multi operator work platform!

Example: One additional XMT equals 3 operators, up to 240 Amps each. Premium quality arcs allow operators to work independently with no arc interaction. Multi operator welding has never been easier or more versatile.

INCREASED EFFICIENCY

- More arcs and better fuel economy equal increased profits for your business.
- Estimated savings are 34 percent with a dual-operator unit versus two single-operator units.
- Remote oil drain for engine and compressor prevents spills and makes servicing easy.
- Electronic engine display simultaneously displays fuel level, engine hours, coolant temperature, oil pressure, battery Volts, engine RPM, air pressure, and compressor hours.
- Tracks oil change intervals and displays engine diagnostics for quick and easy servicing.

MODEL OPTIONS	PART NO
Dual VRD, Emergency Stop, Double Pol Battery Isolator & Lockout Device	MR907536-2
Dual VRD, Roll Frame & Spill Tray Assembly, Emergency Stop, Double Pol Battery Isolator & Lockout Device	MR907536-3



DEUTZ 2011 L04I - HEAVY-DUTY LOW SPEED INDUSTRIAL DIESEL ENGINE

Designed, built and proven to operate over 10,000 hours before the first basic overhaul.

INGERSOLL RAND

- > Ultra-reliable industrial rotary screw compressor.
- > 30,000-hour life expectancy.
- > Independent on/off control for applications not requiring compressed air – allows greater fuel savings and longer compressor service intervals.
- > 100PSI, 60CFM, 100% Duty Cycle.

VRD STANDARD (CAT.C AS1674.2)

- > Reduces the open-circuit Voltage to 15 Volts when the welding power source is not in use, increasing operator safety without compromising arc starts.
- > Infinite arc control allows the arc characteristics to be changed for specific applications in Stick, MIG and FCAW.

AUTO REMOTE SENSE™

(ARS) detects if a remote control is plugged into the 14-pin receptacle and eliminates confusion of a remote/panel switch.

AUXILIARY POWER*

- > 1 x 380 V 32 Amp Sockets.
- > 2 X 240 V 15 Amp Sockets.
- > RCD.

THERMAL OVERLOAD PROTECTION

Prevents machine damage if the duty cycle is exceeded or airflow is blocked.

STANDARD FEATURES

- > Digital weld meters.
- > Automatic idle.
- > 120 V block heater.
- > Lockout/tagout battery disconnect switch.

*Generator auxiliary power is 60Hz, and intended for operating equipment associated with welding, such as angle grinders, drills and floodlights. Some Australian 50Hz equipment incorporating induction motors, such as pumps, fans, air compressors, refrigeration or air-conditioners, may not operate correctly and could be damaged. Refer to appliance supplier or manufacturer to confirm suitability.

APPLICATIONS

- Mining Maintenance
- Railroad Maintenance
- Maintenance and Repair

PROCESSES

- Stick (SMAW)
- MIG (GMAW)
- Flux-Cored (FCAW)
- DC TIG (GTAW)
- Submerged Arc (SAW)
- Air Carbon Arc (CAC-A)
- Air Plasma Cutting and Gouging
- Compressed Air

WELDING MODE	OUTPUT MODE	WELD OUTPUT RANGE	WELD OUTPUT RATED AT 104° F (40° C)	MAX OPEN CIRCUIT VOLTAGE	GENERATOR POWER OUTPUT RATED AT 104° F (40° C)	SOUND LEVELS AT 23 FT. (7 M)	DIMENSIONS (MM)	WEIGHT* (WITHOUT FUEL)
CC/DC (Stick/TIG)	Separate (Dual Outputs)	20 – 400 A	400 A at 36 V, 100% Duty Cycle (Each Side)	85 VDC 15 VDC (VRD)	3 phase: 27,000 watts peak, 20,000 watts continuous 1 Phase: 5,500 watts peak, 4,000 watts continuous	Idle: 73.0 dB (97.8 Lwa), 77.2 dB at one meter from front panel Weld (800 A Load): 81.7 dB (106.5 Lwa), 84.4 dB at one meter from front panel	H: 1194 H: 1397 (top of exhaust) W: 724 D: 1765	Net: 968.4kg Ship: 991.6kg <i>*Additional: 75kg when fuel tank is full</i>
	Paralleled (Combined)	40 – 800 A	700 A at 44 V, 100% Duty Cycle 800 A at 38 V, 100% Duty Cycle					
CV/DC (MIG/FCAW)	Separate (Dual Outputs)	14 – 40 V	400 A at 34 V, 100% Duty Cycle (Each Side)	85 VDC 15 VDC (VRD)	3 phase: 27,000 watts peak, 20,000 watts continuous 1 Phase: 5,500 watts peak, 4,000 watts continuous	Idle: 73.0 dB (97.8 Lwa), 77.2 dB at one meter from front panel Weld (800 A Load): 81.7 dB (106.5 Lwa), 84.4 dB at one meter from front panel	H: 1194 H: 1397 (top of exhaust) W: 724 D: 1765	Net: 968.4kg Ship: 991.6kg <i>*Additional: 75kg when fuel tank is full</i>
	Paralleled (Combined)	14 – 40 V	750 A at 40 V, 100% Duty Cycle 800 A at 38 V, 100% Duty Cycle					

WELDERS OF OZ

THE WELDERS OF OZ AREN'T YOUR AVERAGE FABRICATORS OR BOILERMAKERS, THESE GUYS ARE THE BEST OF THE BEST.

BOB, NO 1 FABRICATOR
TRIPLE EIGHT RACE ENGINEERING

More info >
welding.com.au/weldersofoz





Arc & TIG



PRODUCT	PROCESS								WELDABLE MATERIALS	WELDING AMPERAGE RANGE	INPUT VOLTAGE	GENERATOR POWER REQUIRED	TYPICAL APPLICATIONS
	STICK	AC TIG	DC TIG	HIGH FREQ	LIFT ARC	PULSE	LOW OCV	CAC-A					
Maxstar 150 STH	●		●	●	●	●	●	N/A	Steel, Stainless	5 - 150 DC	115/240 V *	6.5 kVA	Sheet Metal, Marine, Site Welding, Maintenance
Maxstar 200DX	●		●	●	●	●	●	N/A	Steel, Stainless	1 - 200 DC	115/240/415 V *	7 kVA	Sheet Metal, Marine, Site Welding, Maintenance
Maxstar 280DX	●		●	●	●	●	●	3/16" (4.8mm)	Steel, Stainless	5 - 280 DC	115/240/415 V *	12.5 kVA	Sheet Metal, Marine, Site Welding, Construction, Maintenance
Dynasty 200DX	●	●	●	●	●	●	●	N/A	Steel, Aluminium, Stainless	5 - 200 AC 1 - 200 DC	115/240/415 V *	11 kVA	Sheet Metal, Marine, Site Welding, Maintenance
Dynasty 280DX	●	●	●	●	●	●	●	3/16" (4.8mm)	Steel, Aluminium, Stainless	5 - 280 AC/DC	115/240/415 V *	12.5 kVA	Sheet Metal, Marine, Site Welding, Maintenance
Dynasty 350DX	●	●	●	●	●	●	●	1/4" (6mm)	Steel, Aluminium, Stainless	3 - 350 AC/DC	415 V	16.5 kVA	Sheet Metal, Marine, Maintenance

Capability ● Designed for this process * Autoline

Maxstar 150 STH

Part No: MR907352-1



LIGHTWEIGHT & PORTABLE DC OUTPUT TIG/STICK MACHINE.

AUTO-LINE™ POWER MANAGEMENT

Automatically compensates for various input Voltage. Suits jobsite and generator power.

LIGHTWEIGHT & PORTABLE

Easy to move around the workshop or jobsite – only 6.2kg.

BUILT-IN PULSING CAPABILITIES

Allows the operator to select from four fixed pulse frequencies to satisfy the application.

SELECTABLE TRIGGER CONFIGURATION

The operator can choose standard or 2T trigger method to meet the application.

LIFT-ARC™ STARTING

Provides TIG arc starting without the use of high frequency.

HF START

Non-contact arc starting to eliminate tungsten or material contamination.

BUILT-IN GAS SOLENOID

Eliminates the need for a bulky torch with a gas valve.

ADAPTIVE HOT START™

Automatically increases the output Amperage at the start of a weld should the start require it. Prevents the electrode from sticking and creating an inclusion.

LOW OCV STICK

Reduces the open-circuit Voltage to 12–16 Volts when the welding power source is not in use. In accordance with CAT C AS 1674.2. (Nb: does not have a VRD indicator).

THERMAL OVERLOAD PROTECTION

Helps prevent machine damage if the duty cycle is exceeded or airflow is blocked.

FAN-ON-DEMAND™

Power source cooling system operates only when needed - reducing noise, energy use and the amount of contaminants pulled through the machine.

3 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.

APPLICATIONS

- Process Pipe
- Dairy Industry
- Food/Beverage Industry
- Shipboard Installation/Repair
- Maintenance Repair

PROCESSES

- TIG (GTAW)
- Pulsed TIG (GTAW-P)
- Stick (SMAW)



INPUT POWER	WELDING AMP RANGE	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT 50/60 HZ	KVA AT DUTY CYCLE	DIMENSIONS (MM)	WEIGHT
230 VAC Stick	20 - 150 A	100 A at 24.0 VCD, 100% Duty Cycle	13.1	3.0	H: 229 W: 140 D: 337	6.2kg
		150 A at 26.0 VCD, 30% Duty Cycle	21.6	4.9		
230 VAC TIG	5 - 150 A	100 A at 14.0 VCD, 100% Duty Cycle	8.3	2.0		
		150 A at 16.0 VCD, 30% Duty Cycle	14.2	3.2		

Maxstar 200DX

Part No: MR907354



FOR JOBS THAT DEMAND PRECISION.

AUTO-LINE™ POWER MANAGEMENT

Automatically compensates for various input Voltage. Suits jobsite and generator power. Single or 3 phase.

FAN-ON-DEMAND™

Power source cooling system operates only when needed - reducing noise, energy use and the amount of contaminants pulled through the machine.

LIFT-ARC™ STARTING

Provides X-Ray clean welds without the use of high frequency.

BLUE LIGHTNING™

High-frequency arc starter for non-contact arc initiation. Provides more consistent arc starts and greater reliability compared to traditional HF arc starters. Easy to set and increases productivity.

DC TIG FEATURES

Exceptionally smooth and precise arc for welding exotic materials.

STICK FEATURES (DC)

Tailored arc control (DIG) allows the arc characteristic to be changed for specific applications and electrodes. Smooth running 7018 or stiffer, more penetrating 6010.

HOT-START™

Provides positive arc starts without sticking.

LOW OCV

VRD TO CAT C AS 1674.2

3 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.

APPLICATIONS	PROCESSES
Precision Fabrication	TIG (GTAW)
Petro Chemical	Pulsed TIG (GTAW-P)
Food & Beverage Industry	Stick (SMAW)



WELDING MODE	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 50/60 HZ			DIMENSIONS (MM)	WEIGHT
		230 V 1 PHASE	400 V 3 PHASE	KVA		
TIG (GTAW)	175 A at 17 V, 60% Duty Cycle	17.4	6.0 A	4.2	H: 343 W: 191 D: 445	16.8kg
Stick (SMAW)	150 A at 26 V, 60% Duty Cycle	21.7	7.4 A	5.2		

Maxstar 280DX

Part No: MR907539002



NEW PRODUCT AVAILABLE SEPTEMBER 2014

UPGRADABLE & EXPANDABLE

Front panel memory card data port provides the ability to easily upgrade software and expand product features.

PRO-SET

Eliminates the guesswork when setting weld parameters. Use Pro-Set when you want the speed, convenience and confidence of preset controls. Simply select the feature and adjust until Pro-Set appears on the display.

SLEEP TIMER

Conserves electricity. This programmable feature will power down the machine if it sits idle for a specific time.

BLUE LIGHTNING™

High-frequency (HF) arc starter for non-contact arc initiation.

METER CALIBRATION

Allows digital meters to be calibrated for certification.

WIND TUNNEL TECHNOLOGY™

Protects internal electrical components from airborne contaminants, extending the product life.

COOL POWER SUPPLY

Integrated 120-volt dedicated-use receptacle to power the Coolmate™ 1.3. The power switch on the Maxstar also activates the receptacle to help prevent torch failure.

FAN-ON-DEMAND™

Power source cooling system operates only when needed, reducing noise, energy use and the amount of contaminants pulled through the machine.

DC TIG FEATURES

> Pulse. Pulsing can increase puddle agitation, arc stability and travel speeds while reducing heat input and distortion. DX models provide extended ranges.

> Exceptionally smooth and precise arc for welding exotic materials.

DC STICK FEATURES DIG

> Allows the arc characteristics to be changed for specific applications and electrodes.

> Lower the DIG setting for smooth running electrodes like E7018 and increase the DIG setting for stiffer, more penetrating electrodes like E6010.

> Hot Start™ adaptive control provides positive arc starts without sticking.

> Stick-Stuck detects if the electrode is stuck to the part and turns the welding output off to safely and easily remove the electrode. Menu selectable.

3 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.

APPLICATIONS

- Precision Fabrication
- Petro Chemical
- Aerospace
- Food/Beverage Industry
- Dairy
- Shipboard

PROCESSES

- DC TIG (GTAW)
- Pulsed TIG (GTAW-P)
- Stick (SMAW)



WELDING MODE	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 50/60 HZ			DIMENSIONS (MM)	WEIGHT
		230 V 1 PHASE	400 V 3 PHASE	KVA		
TIG (GTAW)	235 A at 19.4 V, 60% Duty Cycle	26 A	9 A	12.5	H: 346 W: 219 D: 269	22.7kg
Stick (SMAW)	235 A at 19.4 V, 60% Duty Cycle	27 A	10 A	12.5		

Dynasty 200DX

Part No: MR907356



IDEAL FOR MAINTENANCE JOBS SPLIT BETWEEN THE WORKSHOP & SITE.

AUTO-LINE™ POWER MANAGEMENT

Automatically compensates for various input Voltage. Suits jobsite and generator power.

FAN-ON-DEMAND™

Power source cooling system operates only when needed - reducing noise, energy use and the amount of contaminants pulled through the machine.

LIFT-ARC™ STARTING

Provides X-Ray clean welds without the use of high frequency.

BLUE LIGHTNING™

High-frequency arc starter for non-contact arc initiation. Provides more consistent arc starts and greater reliability.

WIND TUNNEL TECHNOLOGY™

Protects internal components from airborne contaminants, extending product life.

VRD TO CAT C AS 1674.2

3 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.

APPLICATIONS	PROCESSES
Precision Fabrication Petro Chemical Food & Beverage Industry Dairy Shipboard	TIG (GTAW) Pulsed TIG (GTAW-P) Stick (SMAW)



WELDING MODE	AMP RANGE	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 50/60 HZ			DIMENSIONS (MM)	WEIGHT
			230 V 1 PHASE	400 V 3 PHASE	KVA		
TIG (GTAW)	AC 5 - 150 A DC 1 - 150 A (115 VAC)	200 A at 18 V, 20% Duty Cycle	33 A	9 A	5.5	H: 343 W: 191 D: 546	20.5kg
		150 A at 16 V, 60% Duty Cycle	15.8 A	6 A	3.8		
Stick (SMAW)	AC 5 - 105 A DC 1 - 105 A	200 A at 28 V, 20% Duty Cycle	33 A	13 A	8.1		

* Dependent on load variables, full output may not be available at 240 V 1 phase.

Dynasty 280DX

Part No: MR907514002



NEW PRODUCT

AVAILABLE SEPTEMBER 2014

UPGRADABLE & EXPANDABLE

Front panel memory card data port provides the ability to easily upgrade software and expand product features.

PRO-SET

Eliminates the guesswork when setting weld parameters. Use Pro-Set when you want the speed, convenience and confidence of preset controls. Simply select the feature and adjust until Pro-Set appears on the display.

SLEEP TIMER

Conserves electricity. This programmable feature will power down the machine if it sits idle for a specific time.

BLUE LIGHTNING™

High-frequency (HF) arc starter for non-contact arc initiation. Provides more consistent arc starts and greater reliability compared to traditional HF arc starters.

WIND TUNNEL TECHNOLOGY™

Protects internal electrical components from airborne contaminants, extending the product life.

METER CALIBRATION

Allows digital meters to be calibrated for certification.

COOL POWER SUPPLY

Integrated 120-volt dedicated-use receptacle to power the Coolmate™ 1.3. The power switch on the Maxstar also activates the receptacle to help prevent torch failure.

FAN-ON-DEMAND™

Power source cooling system operates only when needed, reducing noise, energy use and the amount of contaminants pulled through the machine.

DC TIG FEATURES

> Exceptionally smooth and precise arc for welding exotic materials.

AC TIG FEATURES

- > Balance control provides adjustable oxide removal which is essential for creating the highest quality aluminum welds. DX models provide extended ranges.
- > Frequency controls the width of the arc cone and can improve directional control of the arc.

AC/DC STICK FEATURES

- > Hot Start™ adaptive control provides positive arc starts without sticking.
- > AC frequency control adds stability for smoother welds when AC Stick welding.
- > Stick-Stuck detects if the electrode is stuck to the part and turns the welding output off to safely and easily remove the electrode. Menu selectable.

3 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.

APPLICATIONS

- Precision Fabrication
- Heavy Fabrication
- Pipe and Tube Fabrication
- Aerospace
- Aluminum Ship Repair
- Anodized Aluminum Fabrication

PROCESSES

- AC/DC TIG (GTAW)
- Pulsed TIG (GTAW-P)
- Stick (SMAW)



WELDING MODE	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 50/60 HZ			DIMENSIONS (MM)	WEIGHT
		230 V 1 PHASE	400 V 3 PHASE	KVA		
TIG (GTAW)	235 A at 19.4 V, 60% Duty Cycle	30 A	10 A	12.5	H: 346 W: 219 D: 269	25kg
Stick (SMAW)	235 A at 19.4 V, 60% Duty Cycle	31 A	11 A	12.5		

Dynasty 350DX

Part No: MR907204021



EXCEPTIONALLY SMOOTH & PRECISE ARC.

FAN-ON-DEMAND™

Power source cooling system operates only when needed - reducing noise, energy use and the amount of contaminants pulled through the machine.

LIFT-ARC™ STARTING

Provides X-Ray clean welds without the use of high frequency.

BLUE LIGHTNING™

High-frequency arc starter for non-contact arc initiation. Provides more consistent arc starts and greater reliability.

METER CALIBRATION

Allows meters to be calibrated for certification.

WIND TUNNEL TECHNOLOGY™

Protects internal electrical components from airborne contaminants, extending the product life.

PROGRAM MEMORY

Features 9 independent program memories that maintain/save your parameters.

AUTO-POSTFLOW

- Calculates the length of postflow time based on the Amperage setting.
- This eliminates the need to independently set the postflow time for different Amperages.
- This feature preserves your tungsten and prevents porosity.

VRD TO CAT C AS 1674.2

3 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.

APPLICATIONS	PROCESSES
Precision Fabrication	TIG (GTAW)
Heavy Fabrication	Pulsed TIG (GTAW-P)
Pipe and Tube Fabrication	Stick (SMAW)
Aluminium Ship Repair	
Anodized Aluminium Fabrication	



AMP RANGE	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 50/60 HZ		DIMENSIONS (MM)	WEIGHT
		400 V	KVA		
3 - 350 A	250 A at 30 V, 100% Duty Cycle	15 A	10.3	H: 629 W: 349 D: 559	61kg
	300 A at 32 V, 60% Duty Cycle	18 A	12.7		





MIG & Multi-Process



PRODUCT	PROCESS								CAC-A	WELDABLE MATERIALS	WELDING OUTPUT RANGE	INPUT VOLTAGE	GENERATOR POWER REQUIRED	TYPICAL APPLICATIONS
	STICK	DC TIG	HIGH FREQ	LIFT ARC	MIG	FC	PULSE	LOW OCV						
Deltaweld 602					●	●			5/16" (8 mm)	Steel, Aluminium, Stainless	10 - 38 V CV	415 V	25 kVA	Construction, Fabrication, Mining, Maintenance
XMT 350	●	●		●	●	●	Opt	●	1/4" (6 mm)	Steel, Aluminium, Stainless	5 - 425 A CC 10 - 38 A CV	240/ 415 V *	15 kVA	Construction, Fabrication, Mining, Maintenance
XMT 350 MPa	●	●		●	●	●		●	1/4" (6 mm)	Steel, Aluminium, Stainless	5 - 425 A CC 10 - 38 A CV	240/ 415 V *	15 kVA	Construction, Marine, Maintenance
XMT 450	●	●		●	●	●	Opt	●	3/8" (9.5 mm)	Steel, Aluminium, Stainless	15 - 600 A CC 10 - 38 V CV	415 V	22 kVA	Construction, Fabrication, Mining, Maintenance
XMT 450 MPa	●	●		●	●	●		●	3/8" (9.5 mm)	Steel, Aluminium, Stainless	15 - 600A CC 10 - 38 V CV	415 V	22 kVA	Construction, Fabrication, Mining, Maintenance
Dimension 562	●	○			●	●			5/16" (8 mm)	Steel, Aluminium, Stainless	20 - 565 A CC 10 - 38 V CV	415 V	36 kVA	Construction, Fabrication, Mining, Maintenance
Dimension 812	●	○			●	●		Opt	3/8" (9.5 mm)	Steel, Aluminium, Stainless	50 - 815 A CC 10 - 65 V CV	415 V	50 kVA	Construction, Fabrication, Mining, Maintenance
PipeWorx Welding System	●	●	●	●	●	●	●	Opt	3/8" (9.5 mm)	Steel, Stainless	40 - 350 A CC 10 - 44 V CV	415 V	20 kVA	Pipeline, Pipe Spooling
PipeWorx 350 FieldPro™	●	●		●	●	●		●	1/4" (6.4 mm)	Steel, Stainless	10 - 350 A CC 10 - 44 V CV	240/ 415 V	15 kVA	Pipeline, Pipe Spooling

Capability ● Designed for this process ○ Capable of this process * Autoline



Deltaweld 602

Part No: MR907358



SUPERIOR ARC WELDING PERFORMANCE

With MIG welding.

INTERNAL DIGITAL VOLTAGE CONTROL (DVC)

Enables operator to preset weld Voltage before striking an arc.

LINE VOLTAGE COMPENSATION

Ensures consistent weld performance by keeping output power constant even if primary input power varies by ± 10%.

POWER EFFICIENT

For exceptional value and return on your investment.

THERMAL OVERLOAD PROTECTION

Light indicates power shutdown. Helps prevent machine damage if the duty cycle is exceeded or airflow is blocked.

DIGITAL VOLTMETER AND AMMETER

Easy to read, even at 9.2m.

FAN ON DEMAND™

Operates only when needed reducing noise, power consumption, and the amount of airborne contaminants pulled through the machine.

14 PIN RECEPTACLE

Provides quick, direct connection to Miller 14-pin wirefeeders and accessories.

REMOTE VOLTAGE CONTROL

Allows operator to change Voltage from wirefeeder.

ENCLOSED CIRCUIT BOARDS

Provide additional protection from contaminants resulting in longer service life.

PC BOARD PROTECTION

Prevents the wirefeeder power or other stray Voltages (less than 115 VAC) from harming the power source PC board.

3 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.

APPLICATIONS	PROCESSES
Heavy Equipment Manufacturing Ship and Boat Building Tank/Pressure Vessel Fabrication Railcar/Locomotive Fabrication and Repair Structural Steel Fabrication Sheet Metal Fabrication Maintenance	MIG (GMAW) Flux Cored (FCAW) Air Carbon Arc Cutting and Gouging (CAC-A) Submerged Arc (SAW)



RATED OUTPUT	VOLTAGE RANGE	RECOMMENDED WELDING RANGE	INPUT AT RATED LOAD OUTPUT, 50/60Hz			MAX OPEN CIRCUIT VOLTAGE	DIMENSIONS (MM)	WEIGHT
			400 V 3P	kVA	kW			
450 A at 38 VDC, 100% Duty Cycle	10 - 38 V	15 - 38 V	37	25.1	21.1	48 VDC	H: 762 W: 585 D: 966	174kg



XMT 350

Part No: MR907161012



AUTO-LINE™ POWER MANAGEMENT

Automatically compensates for various input Voltage. Suits jobsite and generator power. Keeps welding output constant even if input power varies by ±10%.

WIND TUNNEL TECHNOLOGY™

Protects electrical components and PC boards from contamination.

FAN-ON-DEMAND™

The cooling system operates only when needed, reducing noise, energy use and the amount of contaminants pulled through machine.

LIFT-ARC™

Allows TIG starting without the use of high-frequency. Starts the arc without contaminating the weld with tungsten.

ADAPTIVE HOT START™

Increases the output Amperage at the start of a weld if necessary, eliminating electrode sticking.

LIGHTWEIGHT, AEROSPACE-GRADE ALUMINIUM CASE

Offers heavy-duty protection with the benefit of reduced weight.

INVERTER ARC CONTROL TECHNOLOGY

Provides greater puddle control for superior 6010 Stick electrode performance, and outstanding MIG weld performance.

PROCESS SELECTOR SWITCH

Reduces the number of control setup combinations without reducing any features.

LARGE, DUAL DIGITAL METERS

Easy to view and can be pre-set.

PULSED MIG (GMAW-P) CAPABILITIES

With optional Optima™ control reduces spatter and distortion, allows better out-of-position puddle control, and provides potential reduction of fume particle emission.

APPLICATIONS	PROCESSES
Construction	MIG (GMAW)
Shipbuilding	Pulsed MIG (GMAW-P)
Railroad	Stick (SMAW)
Truck/Trailer Manufacturing	TIG (GTAW)
Fabrication	Flux-Cored (FCAW)
Repair Shops	Air Carbon Arc Cutting and Gouging (CAC-A)
Rental Fleets	
Power Generation Plants	

VRD TO CAT C AS 1674.2

3 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.



INPUT POWER	RATED OUTPUT	VOLTAGE RANGE - CV MODE	AMPERAGE RANGE IN CC MODE	INPUT AT RATED LOAD OUTPUT, 50/60Hz				DIMENSIONS (MM)	WEIGHT
				230 V 1P	400 V	kVA	kW		
3 Phase	350 A at 34 VDC, 60% Duty Cycle	10 - 38 V	15 - 425 A	N/A	20.6	14.2	13.6	H: 432 W: 318 D: 610	36.3kg
Single Phase	300 A at 32 VDC, 60% Duty Cycle	10 - 38 V	15 - 425 A	54.6	29.7	11.7	11.2		



XMT 350 MPa

Part No: MR907366002



AUTO-LINE™ POWER MANAGEMENT

Automatically compensates for various input Voltage. Suits jobsite and generator power. Keeps welding output constant even if input power varies by ±10%. Single or 3 phase.

DINSE STYLE WELD DISCONNECTS

Provides high-quality weld cable connections.

FAN-ON-DEMAND™

The cooling system operates only when needed, reducing noise, energy use and the amount of contaminants pulled through machine.

LIFT-ARC™

Allows TIG starting without the use of high-frequency. Starts the arc without contaminating the weld with tungsten.

WIND TUNNEL TECHNOLOGY™

Protects electrical components and PC boards from contamination.

INVERTER ARC CONTROL TECHNOLOGY

Provides greater puddle control for superior 6010 Stick electrode performance, and outstanding MIG weld performance.

ADAPTIVE HOT START™

Increases the output Amperage at the start of a weld if necessary, eliminating electrode sticking.

LIGHTWEIGHT, AEROSPACE-GRADE ALUMINIUM CASE

Offers heavy-duty protection with the benefit of reduced weight.

PROCESS SELECTOR SWITCH

Reduces the number of control setup combinations without reducing any features.

LARGE, DUAL DIGITAL METERS

Easy to view and can be pre-set.

BUILT-IN PULSED MIG PROGRAMS WITH SYNERGIC CAPABILITY

VRD TO CAT C AS 1674.2

APPLICATIONS
Construction
Shipbuilding
Railroad
Truck/Trailer Manufacturing
Fabrication
Repair Shops
Rental Fleets
Power Generation Plants

PROCESSES
MIG (GMAW)
Pulsed MIG (GMAW-P)
Stick (SMAW)
TIG (GTAW)
Flux Cored (FCAW)
Air Carbon Arc Cutting and Gouging (CAC-A)

3 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.



INPUT POWER	RATED OUTPUT	VOLTAGE RANGE - CV MODE	AMPERAGE RANGE IN CC MODE	INPUT AT RATED LOAD OUTPUT, 50/60Hz				DIMENSIONS (MM)	WEIGHT
				230 V 1P	400 V 3P	kVA	kW		
3 Phase	350 A at 34 VDC, 60% Duty Cycle	10 - 38 V	15 - 425 A	N/A	20.6	14.2	13.6	H: 432 W: 318 D: 610	36.3kg
Single Phase	300 A at 32 VDC, 60% Duty Cycle	10 - 38 V	15 - 425 A	54.6	29.7	11.7	11.2		



XMT 450

Part No: MR907525



EXCEPTIONALLY SMOOTH & PRECISE ARC.

WIND TUNNEL TECHNOLOGY™

Protects electrical components and PC boards from contamination.

FAN-ON-DEMAND™

The cooling system operates only when needed, reducing noise, energy use and the amount of contaminants pulled through machine.

LIFT-ARC™

Allows TIG starting without the use of high-frequency. Starts the arc without contaminating the weld with tungsten.

ADAPTIVE HOT START™

Increases the output Amperage at the start of a weld if necessary, eliminating electrode sticking.

LIGHTWEIGHT, AEROSPACE-GRADE ALUMINIUM CASE

Offers heavy-duty protection with the benefit of reduced weight.

LARGE, DUAL DIGITAL METERS

Easy to view and can be pre-set.

INVERTER ARC CONTROL TECHNOLOGY

Provides greater puddle control for superior 6010 Stick electrode performance, and outstanding MIG weld performance.

LINE VOLTAGE COMPENSATION

Keeps welding output constant even if input power varies by ±10%. Line Voltage compensation further expands to an amazing +37/-59% when operating on 460 VAC.

PULSED MIG (GMAW-P) CAPABILITIES

With optional Optima™ control reduces spatter and distortion, allows better out-of-position puddle control, and provides potential reduction of fume particle emission.

APPLICATIONS

- Construction
- Shipbuilding
- Railroad
- Truck/Trailer Manufacturing
- Fabrication
- Repair Shops
- Rental Fleets
- Power Generation Plants

PROCESSES

- MIG (GMAW)/Pulsed MIG (GMAW-P)
- Stick (SMAW)
- TIG (GTAW)
- Flux Cored (FCAW)
- Air Carbon Arc Cutting and Gouging (CAC-A)

PROCESS SELECTOR SWITCH

Reduces the number of control setup combinations without reducing any features.

VRD TO CAT C AS 1674.2

3 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.



INPUT POWER	RATED OUTPUT	VOLTAGE RANGE - CV MODE	AMPERAGE RANGE IN CC MODE	INPUT AT RATED LOAD OUTPUT, 50/60Hz			DIMENSIONS (MM)	WEIGHT
				400 V 3P	kVA	kW		
3 Phase	450 A at 38 VDC, 100% Duty Cycle	10 - 38 V	15 - 600 A	27.6	22	18.9	H: 438 W: 368 D: 689	55.3kg



XMT 450 MPa

Part No: MR907468



BEST IN CLASS OUTPUT POWER FOR THE TOUGHEST APPLICATIONS.

DINSE STYLE WELD DISCONNECTS

Provides high-quality weld cable connections.

FAN-ON-DEMAND™

The cooling system operates only when needed, reducing noise, energy use and the amount of contaminants pulled through machine.

LIFT-ARC™

Allows TIG starting without the use of high-frequency. Starts the arc without contaminating the weld with tungsten.

WIND TUNNEL TECHNOLOGY™

Protects electrical components and PC boards from contamination.

INVERTER ARC CONTROL TECHNOLOGY

Provides greater puddle control for superior 6010 Stick electrode performance, and outstanding MIG weld performance.

ADAPTIVE HOT START™

Increases the output Amperage at the start of a weld if necessary, eliminating electrode sticking.

LIGHTWEIGHT, AEROSPACE-GRADE ALUMINIUM CASE

Offers heavy-duty protection with the benefit of reduced weight.

PROCESS SELECTOR SWITCH

Reduces the number of control setup combinations without reducing any features.

LARGE, DUAL DIGITAL METERS

Easy to view and can be pre-set.

BUILT-IN PULSED MIG PROGRAMS WITH SYNERGIC CAPABILITY

VRD TO CAT C AS 1674.2

3 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.

APPLICATIONS	PROCESSES
Construction	MIG (GMAW)
Shipbuilding	Pulsed MIG (GMAW-P)
Railroad	Stick (SMAW)
Truck/Trailer Manufacturing	TIG (GTAW)
Fabrication	Flux Cored (FCAW)
Repair Shops	Air Carbon Arc Cutting and Gouging (CAC-A)
Rental Fleets	
Power Generation Plants	



INPUT POWER	RATED OUTPUT	VOLTAGE RANGE - CV MODE	AMPERAGE RANGE IN CC MODE	MAX. OPEN-CIRCUIT VOLTAGE	INPUT AT RATED LOAD OUTPUT, 50/60Hz			DIMENSIONS (MM)	WEIGHT
					400 V 3P	kVA	kW		
3 Phase	450 A at 38 VDC, 100% Duty Cycle	10 - 38 V	15 - 600 A	90 VDC	27.6 A	22	18.9	H: 438 W: 368 D: 689	55.3kg

WELDERS OF OZ

THE WELDERS OF OZ AREN'T YOUR AVERAGE
FABRICATORS OR BOILERMAKERS, THESE GUYS
ARE THE BEST OF THE BEST.

WAYNE, LEAD WELDER
ALFABS GROUP

More info >
welding.com.au/weldersofoz





Dimension 562

Part No: MR907360



ENGINEERED TO DELIVER EXCEPTIONAL PERFORMANCE FOR A RANGE OF PROCESSES.

DC MULTI-PROCESS CAPABILITY

Provides versatility and outstanding arc performance in CV (MIG) and CC (Stick, TIG, CAC-A).

INTERNAL DIGITAL VOLTAGE CONTROL (DVC)

Enables operator to pre-set weld Voltage in the CV mode prior to welding.

BUILT-IN ARC CONTROL

Allows the operator to get in tight without sticking the electrode. An electrode compensation circuit ensures consistent arc control performance regardless of the electrode size.

LINE VOLTAGE COMPENSATION

Ensures consistent weld performance by keeping output power constant even if primary input power varies by ±10%.

REMOTE VOLTAGE CONTROL

Allows operator to change Voltage from feeder.

14-PIN RECEPTACLE

Provides quick, direct connection to Miller 14-pin wirefeeders and accessories.

ENCLOSED CIRCUIT BOARDS

Provides additional protection from contaminants resulting in longer service life.

PC BOARD PROTECTION

Prevents the wire feeder power or other stray Voltages (less than 115 VAC) from harming the power source PC board.

FAN-ON-DEMAND™

Power source cooling system operates only when needed - reducing noise, energy use and the amount of contaminants pulled through the machine.

APPLICATIONS

- Fabrication and Construction
- Heavy Manufacturing
- Maintenance/Repair
- Pressure Tank/Vessel Fabrication
- Pipe Welding
- Shipbuilding
- Refineries and Foundries
- Railcar Manufacturing
- Earth-Moving Equipment Manufacturing

PROCESSES

- MIG (GMAW)
- Stick (SMAW)
- TIG (GTAW)
- Flux Cored (FCAW)
- Air Carbon Arc Cutting and Gouging (CAC-A)
- Submerged Arc (SAW)

HOT-START™

Easy to start difficult Stick electrodes such as E-6010 and E-7018.

3 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.



RATED OUTPUT	AMP/VOLT RANGE	INPUT AT RATED OUTPUT, 50/60 Hz			DIMENSIONS (MM)	WEIGHT
		400 V 3P	kVA	kW		
450 A at 38 VDC, (36.5 VDC for CE Model) 100% Duty Cycle	20 - 565 A in CC mode	46	31.4	22	H: 762 including lift eye W: 585 D: 966 including strain relief	192kg
450 A at 38 VDC, (36.5 VDC for CE Model) 100% Duty Cycle	10 - 38 V in CV mode	51	35.3	22.3		



Dimension 812

Part No: MR907361

Part No: MR907361-1 [with VRD]



DC MULTI-PROCESS CAPABILITY

Provides versatility and outstanding arc performance in CV (MIG) and CC (Stick, TIG, CAC-A).

INTERNAL DIGITAL VOLTAGE CONTROL (DVC)

Enables operator to pre-set weld Voltage in the CV mode prior to welding.

BUILT-IN ARC CONTROL

Allows the operator to get in tight without sticking the electrode. An electrode compensation circuit ensures consistent arc control performance regardless of the electrode size.

HOT-START™

Easy to start difficult Stick electrodes such as E-6010 and E-7018.

FAN-ON-DEMAND™

Power source cooling system operates only when needed - reducing noise, energy use and the amount of contaminants pulled through the machine.

LINE VOLTAGE COMPENSATION

Ensures consistent weld performance by keeping output power constant even if primary input power varies by ±10%.

14-PIN RECEPTACLE

Provides quick, direct connection to Miller 14-pin wirefeeders and accessories.

REMOTE VOLTAGE CONTROL

Allows operator to change Voltage from feeder.

ENCLOSED CIRCUIT BOARDS

Provides additional protection from contaminants resulting in longer service life.

PC BOARD PROTECTION

Prevents the wire feeder power or other stray Voltages (less than 115 VAC) from harming the power source PC board.

3 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.

APPLICATIONS	PROCESSES
<ul style="list-style-type: none"> Fabrication and Construction Heavy Manufacturing Maintenance/Repair Pressure Tank/Vessel Fabrication Pipe Welding Shipbuilding Refineries and Foundries Railcar Manufacturing Earth-Moving Equipment Manufacturing 	<ul style="list-style-type: none"> MIG (GMAW) Stick (SMAW) TIG (GTAW) Flux Cored (FCAW) Air Carbon Arc Cutting and Gouging (CAC-A) Submerged Arc (SAW)



RATED OUTPUT	AMP/VOLT RANGE	INPUT AT RATED OUTPUT, 50/60 Hz			DIMENSIONS (MM)	WEIGHT
		400 V 3P	kVA	kW		
650 A at 44 VDC, 100% Duty Cycle	50 - 815 A in CC mode	73	50	34.8	H: 762 including lift eye W: 585 D: 966 including strain relief	247kg



PipeWorx Welding System

Part No: MR907534



Designed & Optimised for Pipe Fabrication Shops.



SINGLE SYSTEM DESIGN

One machine designed to perform all your pipe welding needs.

WIND TUNNEL TECHNOLOGY™

Protects electrical components and PC boards from contamination.

FAN-ON-DEMAND™

The cooling system operates only when needed, reducing noise, energy use and the amount of contaminants pulled through machine.

MULTI-PROCESS MACHINE

> Weld processes are optimised to deliver superior arc performance and stability specifically for root pass, fill and cap pipe welding.

> Includes conventional Stick, DC TIG (Lift-Arc or HF Start), Flux-Cored and MIG welding processes.

> Advanced RMD® and Pulsed MIG processes deliver superior quality welds, increase productivity, and reduce rework and training.



SIMPLE PROCESS SET-UP

- > Clearly labelled controls in easy-to-understand welder terminology.
- > Requires just a few basic steps to set up a new weld process, resulting in less training time and minimizing errors from incorrect setups.
- > The front panel was designed by welders for welders. Only backlit controls are adjustable to eliminate confusion.
- > Memory feature stores four programs for each selection: Stick, DC TIG, and MIG (left and right side of feeder). Beneficial when using multiple procedures, multiple process parameters or multiple welders and eliminates the need to remember parameters.

SINGLE OR DUAL WIREFEEDER AVAILABLE

With simple operator interface. Wirefeed speeds up to 780 IPM.

STREAMLINED SYSTEM

- > Wind Tunnel Technology™ and Fan-On-Demand™ provide system protection in the dusty shop environment.
- > Innovative cable and gun storage manages clutter for a cleaner, organised weld-cell area. Cables remain connected to the power source and do not need to be switched for the different welding processes.
- > All system components have been selected to meet the needs of a pipe fabrication shop.

QUICK PROCESS CHANGEOVER

- > No need to manually switch polarity or cables and hoses between processes. Simply push a process selection button to choose a welding process. PipeWorx ‘Quick-Select’ technology automatically selects the welding process, the correct polarity, cable outputs and welding parameters.
- > Quick process changeover eliminates set-up time for switching cables and gas hoses. Also, reduces the risk of weld reworks due to incorrect cable connection.

3 YEAR WARRANTY

For details, refer to Miller’s True Blue warranty statement.

APPLICATIONS

Process Piping
Refinery
Petrochemical
Power
HVAC and Water Pipe

PROCESSES

Stick (SMAW)
DC TIG (GTAW)
MIG (GMAW)
MIG RMD® (GMAW MSC)
Pulsed MIG (GMAW-P)
Flux Cored (FCAW)

WELDING MODE	RATED OUTPUT	AMPERAGE VOLTAGE RANGE	INPUT AT RATED LOAD OUTPUT, 50/60Hz	kVA (400 V)	kW (400 V)	DIMENSIONS (MM)	WEIGHT
			400 V 3P				
CC: Stick	350 A at 36 VDC, 100% Duty Cycle	40 - 350 A	25.5	17.8	16.5	H: 711 W: 495 D: 806	102kg (Power Source Only)
CC: DC TIG	350 A at 24 VDC, 100% Duty Cycle	10 - 350 A	18.1	12.5	9.8	(Power Source Only)	
CV: MIG/ Flux Cored	400 A at 34 VDC, 100% Duty Cycle	10 - 44 V	25.7	18.0	15.6		



PipeWorx 350 FieldPro™

Part No: MR907633 PipeWorx 350 FieldPro™

Part No: MR301177 FieldPro™ Smart Feeder

Part No: MR301176 FieldPro™ Remote

Part No: MR301228 FieldPro™ Feeder



Best in Class Productivity.



NEW PRODUCT

AUTO-LINE™ POWER MANAGEMENT

Automatically compensates for various input Voltage. Suits jobsite and generator power. Keeps welding output constant even if input power varies by ±10%. Single or 3 phase.

EASY TO USE

- > The PipeWorx 350 FieldPro™ is streamlined and simplified to reduce setup time and potential weld defects. Push button process changeover eliminates the need for swapping cables.
- > The robust design will withstand harsh environments common in the field.

COMPLETE REMOTE CONTROL

- > The FieldPro™ Remote provides all the same functionality of the PipeWorx 350 FieldPro™ hundreds of feet from the power source, including process changeover, and Amperage adjustment with no special cables.
- > Connect the FieldPro™ Remote in line with the electrode holder or TIG torch with standard welding cables and have complete remote control.

SUPERIOR ARC PERFORMANCE

- > The optimized Stick and TIG performance specifically meets the needs of open root pipe welding and helps reduce training time and increases quality.
- > Starts maintain root opening and prepared edge and stops limit arc marks outside of the heat-affected zone.





COMPLETE CONTROL AT THE WELD JOINT

- > FieldPro™ Remote reduces weld defects by automatically setting correct polarity for each welding process — without the need to manually swap cables.
- > Eliminates the need to “get by” with less than optimal settings without control cables, and allows for easy setup of a new weld process with the touch of a button.
- > Total remote control of welding processes and parameters improves safety by limiting jobsite movement and reducing slip, trip and fall hazards.

SIMPLIFIED CABLE MANAGEMENT

- > Save time by eliminating the need to trace cables back to change welding parameters and processes.
- > No control cables to string and manage on the jobsite.

ARC PERFORMANCE OPTIMISED FOR CRITICAL PIPE WELDING

- > Industry-leading arc performance like the PipeWorx 400 Welding System, but in a field-ready package.
- > True multi-process system provides conventional Stick, TIG, FCAW, and MIG welding as well as the advanced technologies of RMD and Pulse.
- > Smart Feeder delivers excellent RMD and Pulse welding up to 60 metres away from the power source with no control cables.
- > RMD and Pulse processes also help reduce weld failures and eliminate backing gas on some stainless and chrome-moly applications.

VRD TO CAT C AS1674.2

3 YEAR WARRANTY

For details, refer to Miller’s True Blue warranty statement.

APPLICATIONS	PROCESSES
Process Piping Refinery Petrochemical Power HVAC and Water Pipe	Stick (SMAW) DC TIG (GTAW) MIG (GMAW) MIG RMD® (GMAW MSC) Pulsed MIG (GMAW-P) Flux Cored (FCAW) Air Carbon Arc (CAC-A) Cutting and Gouging

FIELDPRO REMOTE

- Stick Process Selection Button
- Digital Meter
- TIG Process Selection Button
- Amperage Output Adjustment
- In Use Indicator
- Remote Indicators
- In Use Indicator
- Stick Electrode Type Selection

INPUT POWER	RATED OUTPUT	VOLTAGE RANGE IN CV MODE	AMPERAGE RANGE IN CC MODE	MAX OPEN CIRCUIT VOLTAGE	RMS INPUT AT RATED LOAD OUTPUT, 50/60 Hz, 3-PHASE AT NEMALOAD VOLTAGES & CLASS 1 RATING			kVA	kW	DIMENSIONS (MM)	WEIGHT
					230 V 1P	460 V	575 V				
3 Phase	350 A at 34 VDC, 60% Duty Cycle	10 - 44 V	10 - 350 A	75 VDC	36.1	17.8	14.1	15.0	14.4	H: 432 W: 305 D: 559	43.1kg
1 Phase	300 A at 32 VDC, 60% Duty Cycle				54.6	25.4	19.9	11.7	11.2		





Plasma Cutting



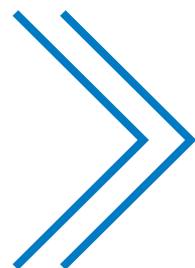
EXTREME RELIABILITY.

Spectrum® 700i

Part No: MR907543



Portable & Powerful 40 Amp Plasma Cutting Package.



HIGH PERFORMANCE COOLING SYSTEM WITH FAN-ON-DEMAND™

Thermal management system features new high-speed fan which only operates when torch trigger is engaged for improved reliability.

WIND TUNNEL TECHNOLOGY™

Prevents abrasive dust and particles from damaging internal components.

AUTOMATIC CONSUMABLE PROTECTION

Detects consumable type installed and adjusts gas pressure to optimise cutting performance, eliminating the need for a manual regulator.

AUTO-REFIRE™ TECHNOLOGY

Automatically controls the pilot arc when cutting expanded metal or multiple pieces of metal. The pilot arc will switch in and out as fast as needed when cutting expanded metal and provides maximum power for cutting thicker metal - all automatically! No need for manual re-triggering, which reduces user hand fatigue.

AUTO POSTFLOW

Calculates the length of postflow time based on the amount of cutting time to optimise consumable life and eliminate excessive air usage.

AUTOMATIC AIR REGULATION

The unit automatically compensates for input pressure variation to provide constant recommended torch pressure for optimum cutting performance.



XT40 TORCH

With ergonomic handle to help prevent operator fatigue while the flexible cable makes manoeuvring easier.

LVC™ LINE VOLTAGE COMPENSATION

Provides peak performance power under variable conditions (power fluctuations up to ±15%) to deliver steady and cleaner ending cuts.

LED INDICATOR

For pressure, power, cup and temperature. Allows faster troubleshooting, eliminating unnecessary downtime.

CABLE MANAGEMENT STRAP

Secures torch, work cable and power cord to make transporting easy and convenient.

3 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.

APPLICATIONS

Maintenance
Light Construction
Sheet Metal Shops
Body Shops
Fabrication

PACKAGE INCLUDES:

- XT40 hand-held torch with 3.7m flexible cable.
- Work clamp with 5.1m cable.
- 3m power cord.
- Extra consumables.

MILD STEEL CUTTING CAPABILITY

CUTTING AT 40 AMPS (240 V)



1/4 IN. (6.4MM) AT 64 IPM



5/8 IN. (15.9MM) AT 13 IPM

Mild steel recommended cut speeds at 40 Amps

THICKNESS	APPROX. TRAVEL SPEEDS*
1/8 in. (3.2mm)	156 IPM (3963mm/min)
1/4 in. (6.4mm)	64 IPM (1626mm/min)
3/8 in. (9.5mm)	36 IPM (915mm/min)
1/2 in. (12.7mm)	22 IPM (559mm/min)
5/8 in. (15.9mm)	13 IPM (330mm/min)

*Travel speeds are approximately 80% of maximum.

NOTE: Recommended maximum piercing capacity for hand held application is 5/16 inches (7.9mm). Maximum sever cut of 7/8 inches (22.2mm) at approximately 5 IPM. For aluminium and other metals with high thermal conductivity, cutting capabilities will be derated as much as 30%.

MILD STEEL CUTTING CAPACITY	INPUT POWER	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 56/60 HZ	KVA	KW	DIMENSIONS (MM)	WEIGHT
Rated: 15.9mm Sever: 22.2mm	240 V	40 A at 140 VDC, 50% Duty Cycle	28.5 A I _{eff} = 20.2 A	6.6	6.5	H: 286 W: 210 D: 362	Net: 13.2kg Shipping: 15.5kg

15 Amp plug supplied for commissioning purposes only.





Induction Heating



APPLICATIONS THAT WOULD TYPICALLY REQUIRE HOURS TO HEAT CAN BE DONE IN MINUTES WITH INDUCTION HEATING.



Pro-Heat™ 35

Part No: MR907432



Weld Pre-Heating & Stress Relieving.



MULTIPLE OUTPUTS

Provides two insulated connectors for air-cooled blankets or liquid-cooled cables.

LOW CONSUMABLE COSTS

No fuel costs and minimal insulation costs. Insulation is reusable and may be used 50 times or more, reducing cost of disposal and replacement.

ON-BOARD TEMPERATURE CONTROL

Provides for manual or temperature-based programming in a simple-to-learn operator interface.

MULTIPLE CONTROL THERMOCOUPLE INPUTS

Control on the hottest TC during heating and coolest TC during cooling for uniform heating and quality.

OPEN OUTPUT DETECTION

Prevents system operation without a covered output receptacle (cable or protective plug).

*Image shows Water Cooled set up example.



REDUCE PREHEATING TIME BY UP TO 400%

Miller's Induction Heating system brings a part to temperature in a fraction of the time, compared to traditional flame and resistance heating processes. It also holds the part at the specified temperature.

With Miller's Pro-Heat™, pre-heat time can be reduced by up to 400%. To put this in perspective, companies using the Pro-Heat™ have reduced pre-heating time from over two hours to just 30 minutes.

CABLE IDENTIFICATION SYSTEM

Knows the type of cable attached and limits output to protect cables and blankets.

ISOLATION FAULT PROTECTION

Provides automatic system shut down should power source output short to ground. A sense lead provides direct feedback to the power source to sense fault condition.

TIME-TO-TEMPERATURE

Faster than conventional processes due to the method of applying the heat, reducing heating cycle time.

UNIFORM HEATING

Heating is maintained along and through the heat zone by using induction to heat within the material. The surface of the part is not marred by localized conducted heat at higher than specified temperatures.

IMPROVED AND SAFER WORKING ENVIRONMENT

Welders are not exposed to open flame, explosive gases and hot elements associated with fuel gas heating and resistance heating.

AIR-COOLED INDUCTION HEATING SYSTEM

Designed for preheating applications up to 204 °C.

LIQUID COOLED INDUCTION HEATING SYSTEM

Designed for preheating, hydrogen bake-out and stress relieving applications up to 788 °C.

EASY SET-UP

Achieved using preheat blankets or flexible heating cables combined with user-friendly insulation blankets. Easy to install primary power through panel that does not require removal of sheet metal.

1 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.

APPLICATIONS
Transmission Pipeline – Construction/Repair
Pipe Fabrication Shops
Power Piping – Construction/Repair
Petrochemical – Construction/Repair
Shipbuilding
Mining Equipment Maintenance
Drill Pipe Manufacturing
Shrink Fit

INPUT POWER	OUTPUT FREQUENCY	RATED OUTPUT	INPUT AMPS AT RATED OUTPUT	KVA/KW AT RATED OUTPUT	DIMENSIONS (MM)	WEIGHT
400 - 460 V, 3 Phase 50/60 Hz CE	5 - 30 kHz	35 kW at 100% Duty Cycle	60 A, 400 V	39/37	H: 669 W: 552 D: 933	103kg

Wirefeeders



PRODUCT	PROCESS										WIRE SIZE SOLID	WIRE SIZE FLUX CORED	TYPICAL APPLICATIONS	
	MIG	MIG PULSE	PORTABLE	POWER REQ	SOLID WIRE	FLUX CORED	ALUM	METERS	2 ROLL FEED	4 ROLL FEED				
Weldmatic W64	●		●	CV	●	●	●				●	0.6 - 1.6mm	0.8 - 1.6mm	Construction, Fabrication, Mining, Maintenance
Suitcase X-Treme 12VS	●	○	●	CC/ CV	●	●	○	●	●			0.6 - 1.6mm	0.9 - 2.0mm	Construction, Fabrication, Mining, Maintenance
Suitcase 12RC	●	○	●	CV	●	●	○	●	●			0.6 - 1.6mm	0.9 - 2.0mm	Construction, Fabrication, Mining, Maintenance
22A	●	○		CV	●	●	○	*	●			0.6 - 1.6mm	0.9 - 2.0mm	Construction, Fabrication, Mining, Maintenance
24A	●	○		CV	●	●	○			●		0.6 - 1.6mm	0.9 - 2.4mm	Construction, Fabrication, Mining, Maintenance
70 Series	●	○		CV	●	●	○	*		●		0.9 - 1.6mm	1.2 - 2.8mm	Construction, Fabrication, Mining, Maintenance
70 Series MPa	●	●		CV	●	●	●	●		●		0.9 - 1.6mm	1.2 - 2.8mm	Construction, Marine, Fabrication, Mining, Maintenance

Capability ● Designed for this process ○ Capable of this process * Optional



Weldmatic W64 Wirefeeder

Part No: W64-0



4 ROLL DRIVE WIREFEEDER. SUITS WELDMATIC 270, 356, 396 & FABRICATOR.

4 ROLL DRIVE 50W MOTOR

Provides a consistent, strong drive for a variety of wires.

HEAVY DUTY 4 ROLL DRIVE

System has larger, stronger drive gears and ball bearings on drive rollers and shafts.

HIGH & LOW SPEED RANGE

Provides 1 to 10m/min or 8 to 20m/min speed, giving finer control of wire speed - particularly useful at lower Voltage settings.

ARC START CONTROL

Allows starting response to be fine-tuned to weld conditions.

CREEP START MODE

Provides slow wire speed until weld starts - ideal for aluminium starts.

PURGE

Allows gas line to be purged, without feeding wire.

INCH

Allows wire to be fed without wasting gas.

LATCH

Provides gun switch trigger to start and then again to stop, reducing operator fatigue on long welds.

PRE GAS

Allows gas to flow before weld starts.

POST GAS

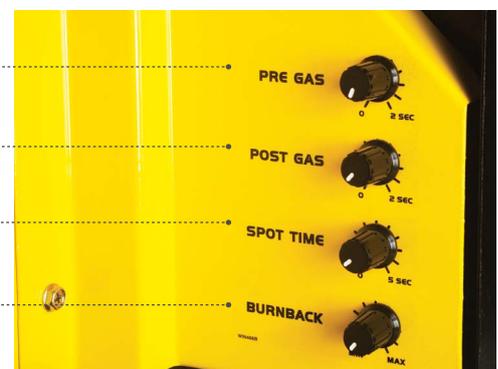
Allows gas to continue flowing after weld has finished.

SPOT TIME

Provides short weld times for repetitive spot welds.

BURNBACK

Controls how far the wire burns back to the tip on completion of the welding operation.



SUPPLY VOLTAGE	RATED SUPPLY CURRENT	CIRCUIT BREAKER CURRENT	PRE-GAS RANGE	START SPEED	SPOOL SIZES	WIRE SPEED RANGE	WIRE SIZE RANGE
32 Vac - (from welding source)	5 Amps	5 Amps	0 - 2 Seconds	Start or creep (switchable)	5kg, 15kg	0 - 10 metres per min low speed range 8 - 20 metres per min high speed range	0.6mm - 1.6mm diameter

Suitcase® X-Treme™ 12VS

Part No: MR300876



Taking Portable Welding to the Extreme!



NEW RELEASE



SCALED WIRE PRESSURE KNOB

- > Provides easy adjustment and consistent pressure on the drive rolls and wire.
- > The wire drive and motor assembly is specifically designed for mobile welding applications to provide smooth and consistent wire delivery.

NEW WIRE DELIVERY SYSTEM

Bends wire over a large radius and applies just the right amount of force to ensure consistent feeding.



ULTRA-LOW DRAG INLET GUIDE PINS

- > Makes loading the wire easy and does not deform the wire on the way into the drive rolls. Simply thread the wire through the pins and into drive rolls.
- > There are two ways to advance the wire through the drive roll and into the gun.
- > Either open the pressure arm and thread the wire into the grooves in the drive roll and on into the gun inlet or place the wire between the pins and use the jog/purge switch to advance the wire through the drive roll.



CONSISTENT WIREFEED

> Provides wire feed speed that is accurate and consistent from the start of the weld to the finish, and from one weld to the next.

> Consistent wire feed speed is very important with large-diameter cored wire, because small changes in wire feed speed make large changes in deposition rates.

EXCELLENT STARTS

Superior arc performance for all types and sizes of wires, whether using CV or CC power supply.

HIGHER DUTY CYCLE

Longer welding periods suitable for higher Amperage applications due to the heavy duty contactor rated at 425 Amps at 60%.

SUPERIOR LOW END PERFORMANCE

Excellent arc performance and welding characteristics when welding at lower currents, either with small wire sizes or out of position applications.

QUICK SET-UP & REVIEW

Operator friendly adjustments including easy to read digital Amp & Volt meters.

OPERATOR CONVENIENCE

Packed with features at your fingertips - including emergency isolation on/off switch, trigger hold, gas purge and wire inch.

QUICK CHANGE ROLLERS

No tools required due to Miller's patented quick lock hub system providing the operator quick and easy drive roller change when switching between wire sizes.

BUILT TO LAST IN HARSH ENVIRONMENTS

The plastic case design, potted PC board and double-filtered gas valve ensure Suitcase withstands the harshest industrial environments.

APPLICATIONS
Construction
Shipbuilding
Heavy Manufacturing
Rental

PROCESSES
MIG (GMAW)
Flux Cored (FCAW)
Pulsed MIG (GMAW-P)

IMPROVED WELD QUALITY

Wire drive with tachometer control improves weld feed speed accuracy and consistency to make it easier to produce quality welds.

3 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.

WELDING MODE	INPUT WELDING CIRCUIT RATING	WIRE SPEED	ELECTRODE WIRE DIAMETER CAPACITY	MAX SPOOL SIZE CAPACITY	DIMENSIONS (MM)	WEIGHT
CC or CV/DC	425 A at 60% Duty Cycle	1.3 - 19.8 m/min	Solid Wire: 0.6 - 1.4mm Flux Cored: 0.8 - 2.0mm	305mm diameter up to 20kg	H: 394 W: 229 D: 533	15.9kg

Suitcase 12RC

Part No: MR300663004



WELDING MODE	INPUT POWER	WIRE SPEED
CV/DC	24 VAC, 10 A, 50/60 Hz	1.9 - 17.8m/min

ELECTRODE WIRE DIAMETER CAPACITY	DIMENSIONS (MM)	WEIGHT
Solid Wire: 0.6 - 1.6mm Flux Cored: 0.9 - 2.0mm	H: 394 W: 229 D: 533	11.6kg



22A & 24A

Part No: MR300615



GEAR-DRIVEN DRIVE ROLLS

Smooth, positive and accurate wire feed with long, uninterrupted service life. 24A has four drive rolls for larger wire diameters.

WIRE FEED SPEED RANGE

75 - 750 IPM! This offers a wider operating range than the competition.

TRIGGER HOLD CONTROL

Allows operator to make long extended welds without having to hold gun trigger.

ON-BOARD BURN-BACK AND MOTOR RAMP CONTROL

Offers unmatched starting and stopping performance on a variety of power sources. This helps to ensure positive arc starting performance.

16-GAUGE SHEET METAL HOUSING

Robust in rough service applications and less prone to damage.

RUN-IN STANDARD ON 24A

For better arc-starting performance on a variety of wires.

REMOTE VOLTAGE CONTROL IS OPTIONAL ON 22A & 24A

Parameter adjustments can be made in weld cell or at a remote location.



MODEL	INPUT POWER	WIRE SPEED	ELECTRODE WIRE DIAMETER CAPACITY	DIMENSIONS (MM)	WEIGHT
22A	24 VAC, 7 A, 50/60 Hz	75 - 750 IPM (1.9 - 19 m/min.)	.023 - 5/64 in. (0.6 - 2.0 mm)	H: 279 W: 273 D: 597	15.4kg
24A		.023 - 3/32 in. (0.6 - 2.4 mm)			18kg



70 Series

Part No: MR300616 [S-74S Standard]

Part No: MR300617 [S-74D Digital]

Part No: MR300618 [S-74DX Digital]*

Part No: MR300620 [D-74D Digital Dual]*



S MODELS (BASIC 70 SERIES FEEDERS)

- > Wire speed control.
- > Factory-set run-in control for improved arc starts.
- > 24 VDC high-torque, permanent-magnet motor.
- > Quick-release, drive-roll pressure adjustment arm allows drive roll change without losing spring preload setting.
- > Solid-state speed control and brake circuit for increased service life.
- > Floating positive drive systems provide trouble-free feeding on a variety of wires.

D MODELS ADD THE FOLLOWING FEATURES

- > Digital meters for easy viewing of the wire feed speed and Voltage.
- > Remote Voltage control allows operator to set Voltage at the wire feeder without having to go back to the power source.
- > Tachometer feedback to help keep wire feed speed accurate.

DX MODELS ADD THE FOLLOWING FEATURES

- > Four weld programs allow the operators to store four independent welding parameters reducing welding setup time (four programs available per side on dual feeder).
- > Adjustable run-in control for improved arc starts.
- > Adjustable weld sequence control gives operator complete control of the welding parameters: pre-flow, run-in, weld time, crater, burn-back and post-flow.

- > Welding process range control locks parameters at a set percentage of welding parameters to ensure welding procedures and quality standards are maintained on the shop floor.
- > Dual schedule allows operator to switch between two welding parameters without readjusting the machine, eliminating downtime and enhancing quality.



* Indent only

WELDING MODE	INPUT POWER	WIRE SPEED	ELECTRODE WIRE DIAMETER CAPACITY	DIMENSIONS (MM)	WEIGHT
CV/DC	24 VAC, 10 A, 50/60 Hz	1.3 - 19.8m/min	Solid Wire: 0.9 - 1.6mm Flux Cored: 1.2 - 2.8mm	S-74 Single: H: 356 W: 318 D: 711 D-74 Dual: H: 356 W: 533 D: 889	S-74 Single: 26kg S-74 D-74 Dual: 39.5kg

74 MPa Plus

Part No: MR300577

MPA PLUS WIREFEEDERS OFFER THE BENEFITS OF THE STANDARD S, D AND DX MODELS, PLUS EVEN MORE.

ALUMINATION™ TECHNOLOGY

> Alumatation™ technology gives you the ability to use the extended reach of a push-pull system for consistent, versatile and dependable aluminium wire feeding.

> Alumatation™ gives you the versatility to handle whatever aluminium welding job you want to tackle.

SYNERGIC PULSED MIG

- > Synergic Pulsed MIG operation when optimized with the XMT MPa power supplies.
- > Provides communication between the power source, feeder and gun.
- > As wire speed increases/decreases, the pulse parameters also increase/decrease to match the right amount of power needed.

TRIGGER SCHEDULE SELECT

- > Trigger schedule select allows the operator to select the alternative schedule by quickly tapping the gun trigger when not welding.
- > When optimized with the XMT MPa power supply the operator can also switch from MIG to Pulsed MIG.

PROFILE PULSE™

- > Profile Pulse™ provides TIG appearance with MIG simplicity and productivity.
- > Achieve “stacked dime” weld bead appearance without back-stepping.
- > Profile Pulse™ frequency can be changed to increase or decrease the spacing between the ripple pattern to achieve the desired weld appearance.

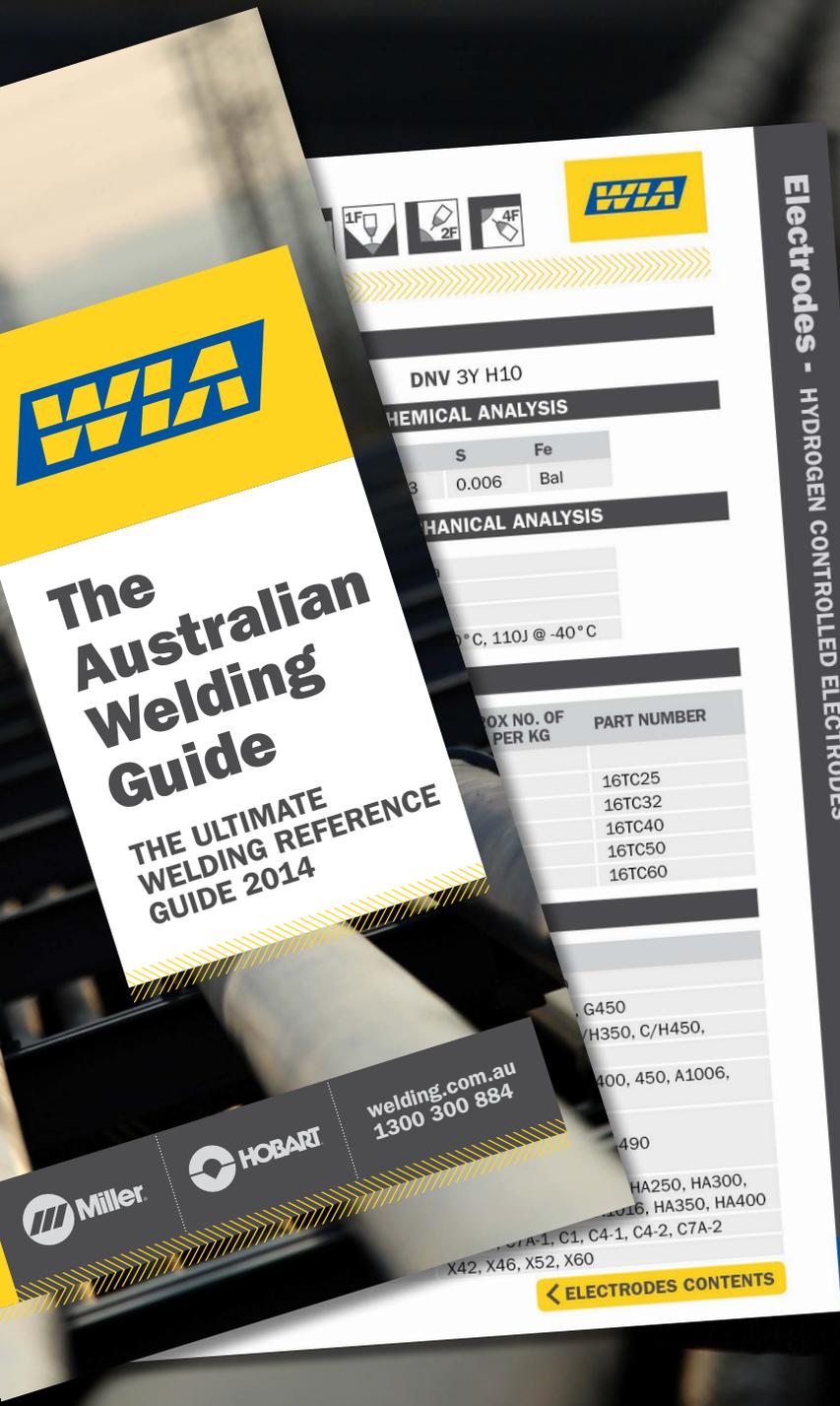


INPUT POWER	WIRE SPEED	ELECTRODE WIRE DIAMETER CAPACITY	DIMENSIONS (MM)	WEIGHT
CV/DC	1.3 - 19.8m/min	Solid Wire: 0.9 - 1.6mm Flux Cored: 1.2 - 2.8mm	H: 356 W: 533 D: 889	39.5kg





More info >
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WIRES & HARDFACING
PRODUCTS.**





Electrodes



**HIGH PERFORMING WELDING
ELECTRODES DESIGNED
FOR THE NEEDS OF THE
INDUSTRIAL USER.**

Austarc 12P

CLASSIFICATION:

- > AS/NZS 4855-B - E43 13 A
- > AWS A5.1: E6013

DESCRIPTION:

- > A popular, easy starting, smooth running, all positional mild steel general purpose electrode.
- > Austarc 12P has the extra arc force and fast freezing slag required for vertical down welds.

> With great operator appeal, it's the ideal general purpose choice for the 'one electrode' workshop.

TYPICAL APPLICATIONS:

Welding of general purpose structural steel, galvanised gates and fences, trailers, steel furniture and wrought iron.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	P	S	Fe
0.07	0.52	0.32	0.013	0.006	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	450 MPa
Tensile Strength	500 MPa
Elongation	26%
CVN Impact Values	70J @ 0°C

ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKAGING (KG)		APPROX NO OF RODS PER KG	PART NUMBER
	PACKET	CARTON		
2.0	2.5	12.5	100	12P20
2.5	2.5	12.5	64	12P25
3.2	5.0	15	31	12P32
4.0	5.0	15	21	12P40

FULL PALLET QUANTITY

ELECTRODE SIZE (MM)	WEIGHT (KG)
2.0 & 2.5	975
3.2 & 4.0	900

Austarc 13S

CLASSIFICATION:

- > AS/NZS 4855-B - E43 13A
- > AWS A5.1: E6013

DESCRIPTION:

- > Austarc 13S is a popular blue and white striped mild steel general purpose electrode for welding in down hand and vertical up positions.
- > It has a soft and stable arc and produces flat, uniform fillet welds with ease and a self-peeling slag action.
- > Easy to use for less experienced operators.

TYPICAL APPLICATIONS:

Structural welding of sheet and plate steel (galvanised or otherwise) and tubular sections, including trailers, duct work, hoppers and storage tanks iron.



TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	P	S	Fe
0.07	0.48	0.41	0.016	0.005	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	450 MPa
Tensile Strength	500 MPa
Elongation	26%
CVN Impact Values	60J @ 0°C

ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKAGING (KG)		APPROX NO OF RODS PER KG	PART NUMBER
	PACKET	CARTON		
2.0	2.5	12.5	99	13S20
2.5	2.5	12.5	64	13S25
3.2	5.0	15	31	13S32
4.0	5.0	15	20	13S40

FULL PALLET QUANTITY

ELECTRODE SIZE (MM)	WEIGHT (KG)
2.0 & 2.5	975
3.2 & 4.0	900

Austarc 16TC

CLASSIFICATION:

- > AS/NZS 4855-B - E49 16 A U H10
- > AWS A5.1: E7016 H8

DESCRIPTION:

- > Austarc 16TC is a smooth running, low hydrogen electrode, developed for all positional welding, using AC or DC power sources.
- > It has exceptional arc stability and weldability and delivers high quality weld deposits with reliable notch toughness to -40 °C.
- > Austarc 16TC is manufactured using a unique twin coating extrusion process, which means all the arc stabilising elements are concentrated in the inner coating. This delivers significantly improved arc stability and control for all applications.

TYPICAL APPLICATIONS:

- > The ideal hydrogen controlled electrode for welding carbon, carbon-manganese and low alloy high strength steels used in a multitude of critical and non-critical applications.
- > Typical applications include pipe welding, single sided weld joints, highly restrained joints, maintenance applications, buffer layer prior to hard surfacing build-up, structural steel and sub-zero temperature applications.

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	460 MPa
Tensile Strength	560 MPa
Elongation	28%
CVN Impact Values	130J @ -20°C & 110J @ -40°C

ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKAGING (KG)		APPROX NO OF RODS PER KG	PART NUMBER
	PACKET	CARTON		
2.5	2.5	12.5	60	16TC25
3.2	5	15	29	16TC32
4.0	5	15	18	16TC40
5.0	5	15	10	16TC50
6.0	5	15	7	16TC60

FULL PALLET QUANTITY

ELECTRODE SIZE (MM)	WEIGHT (KG)
2.5	975
3.2 & 4.0	900
5.0 & 6.0	810

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	P	S	Fe
0.05	1.16	0.42	0.013	0.006	Bal





Austarc 18TC

CLASSIFICATION:

- > AS/NZS 4855-B - E49 18-1 A U H5
- > AWS A5.1: E7018-1

DESCRIPTION:

> Austarc 18TC is an iron powder hydrogen controlled electrode used primarily on C-Mn and low alloy structural steels.

> The unique twin-coat design for 18 type low hydrogen electrode offers excellent AC arc stability and superb DC+ arc transfer, excellent re-strike,

reduced spatter level and extraordinary ease of use for out-of-position welding.

TYPICAL APPLICATIONS:

Oil and gas, pipe welding, structural steel construction, off-shore where Ni-alloying is prohibited, mining equipment, heavy girders and earth moving plant repair and maintenance.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	S	P	Fe
0.06	1.55	0.54	0.020	0.010	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	530 MPa
Tensile Strength	602 MPa
Elongation	24%
CVN Impact Values	87J @ -50 °C

ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKAGING (KG)		APPROX NO OF RODS PER KG	PART NUMBER
	PACKET	CARTON		
2.5	2.2	11	52	18TC25
3.2	5	15	26	18TC32
4.0	5	15	17	18TC40

FULL PALLET QUANTITY

ELECTRODE SIZE (MM)	WEIGHT (KG)
2.5	858
3.2 & 4.0	900



Austarc 77

CLASSIFICATION:

- > AS/NZS 4855-B - E49 18-1 A U H5
- > AWS A5.1: E7018-1 H8

DESCRIPTION:

> Smooth running basic type iron powder electrode used for all positional welding except vertical down.

> This electrode is used where the highest standards are required. Weld features include high ductility, x-ray quality and sub zero temperature impact to -50 °C.

TYPICAL APPLICATIONS:

For critical welding applications including repair and maintenance of heavy plate and highly restrained work pieces such as penstocks, turbines, pressure vessels, heavy girders, earth moving plants etc.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	P	S	Fe
0.06	1.40	0.36	0.015	0.006	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	455 MPa
Tensile Strength	534 MPa
Elongation	30%
CVN Impact Values	123J @ -50°C

ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKAGING (KG)		APPROX NO OF RODS PER KG	PART NUMBER
	PACKET	CARTON		
2.5	2.2	11	48	7725
3.2	5	15	25	7732
4.0	5	15	17	7740
5.0	5	15	9	7750

FULL PALLET QUANTITY

ELECTRODE SIZE (MM)	WEIGHT (KG)
2.5	858
3.2 & 4.0	900
5.0	810



Austarc 24

CLASSIFICATION:

- > AS/NZS 4855-B - E49 24 A
- > AWS A5.1: E7024

DESCRIPTION:

> Suited to long, heavy fillet and butt welding using the touch welding or 'short arc' technique and can be used on AC or DC power sources.

> It's instant arc initiation, high arc stability, and low spatter combines in an excellent fillet weld contour, edge washing and slag

release. It is recommended for high quality down hand welding of heavy sections where high deposition rates are required.

TYPICAL APPLICATIONS:

Tanks, structural frames, tractor, truck and trailer bodies, rolling stock, roof trusses etc.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	P	S	Fe
0.05	0.99	0.42	0.017	0.011	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	416 MPa
Tensile Strength	510 MPa
Elongation	32%
CVN Impact Values	60J @ 0°C

ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKAGING (KG)		APPROX NO OF RODS PER KG	PART NUMBER
	PACKET	CARTON		
3.2	5	15	17	2432
4.0	5	15	12	2440
5.0	5	15	6	2450

FULL PALLET QUANTITY

ELECTRODE SIZE (MM)	WEIGHT (KG)
3.2 & 4.0	900
5.0	810



Austarc 11

CLASSIFICATION:

- > AS/NZS 4855-B - E43 11 A
- > AWS A5.1: E6011

DESCRIPTION:

> High cellulose electrode developed for all positional welding on both AC and DC current. It is particularly suited for vertical and incline pipe welding where complete root penetration is required.

TYPICAL APPLICATIONS:

Recommended for pipeline welding and storage tank construction where either the 'Stove Pipe' or 'Flick' techniques can be used to obtain full-root penetration in critical structural joints.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	P	S	Fe
0.12	0.82	0.20	0.012	0.008	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	416 MPa
Tensile Strength	510 MPa
Elongation	32%
CVN Impact Values	70J @ -30°C

ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKAGING (KG)		APPROX NO OF RODS PER KG	PART NUMBER
	PACKET	CARTON		
2.5	2.5	12.5	66	1125
3.2	5	15	33	1132
4.0	5	15	21	1140
5.0	5	15	14	1150

FULL PALLET QUANTITY

ELECTRODE SIZE (MM)	WEIGHT (KG)
2.5	975
3.2 & 4.0	900
5.0	810



Staincords 309Mo-16

CLASSIFICATION:

- > AS/NZS 4854-B - ES309LMo-16
- > AWS A5.4: E309MoL-16

DESCRIPTION:

> Staincords 309Mo-16 is a Molybdenum bearing, highly alloyed 23Cr/12Ni/2.5Mo extra low carbon rutile type stainless steel electrode, exhibiting superior all positional (except vertical down) performance with an improved moisture resistant coating for weld metal of high radiographic integrity.

> The smooth arc action of Staincords 309Mo-16, together with low spatter and excellent slag control/detachability, promotes exceptional weld appearance and profile.

TYPICAL APPLICATIONS:

Suitable for welding of matching 309 and 309Mo base metals and a wide range of 300 and 400 series stainless steels to alloyed and non-alloyed dissimilar ferrous metal combinations.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Cr	Ni	Mo	Mn	Si	P	S	Cu
0.03	23.51	13.12	2.39	0.79	0.64	0.028	0.027	0.16

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	400 MPa
Tensile Strength	670 MPa
Elongation	38%

ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKAGING (KG)		APPROX NO OF RODS PER KG	PART NUMBER
	PACKET	CARTON		
2.5	2.5	12.5	56	SC309M025
3.2	2.5	12.5	30	SC309M032

FULL PALLET QUANTITY

ELECTRODE SIZE (MM)	WEIGHT (KG)
2.5 & 3.2	900



Staincords 316L-16

CLASSIFICATION:

- > AS/NZS 4854-B - ES316L-16
- > AWS A5.4: E316L-16

DESCRIPTION:

> Staincords 316L-16 is a Molybdenum bearing, 19Cr/12Ni/2.5Mo extra low carbon, rutile type electrode exhibiting superior all positional (except vertical down) performance with an improved moisture resistant "Pink" flux coating for weld metal of high radiographic integrity.

> The smooth arc action of Staincords 316L-16, together with low spatter and excellent slag control/detachability, promotes exceptional weld appearance and profile. Other features include high arc stability and easy restriking on low Voltage AC welding machines.

TYPICAL APPLICATIONS:

Recommended for welding 316, 316L and common 300 series stainless steels such as 301, 302, 304 and 304L. Also suitable for welding ferritic stainless steel alloys such as 3Cr12.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	Cr	Ni	Mo	Fe
0.02	0.74	0.71	17.97	12.48	2.37	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	380 MPa
Tensile Strength	600 MPa
Elongation	40%

ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKAGING (KG)		APPROX NO OF RODS PER KG	PART NUMBER
	PACKET	CARTON		
2.0	2.5	12.5	84	SC31620
2.5	2.5	12.5	55	SC31625
3.2	2.5	12.5	28	SC31632

FULL PALLET QUANTITY

ELECTRODE SIZE (MM)	WEIGHT (KG)
2.0, 2.5 & 3.2	900

Unicord 312

CLASSIFICATION:

- > AS/NZS 4854-B - ES312-16
- > AWS A5.4: E312-16

DESCRIPTION:

- > Unicord 312 is a basic, rutile type electrode depositing a 29%Cr/9%Ni stainless steel weld metal for the high strength welding of a wide range of alloy steels and dissimilar ferrous metals.
- > The high ferrite, austenitic stainless steel deposit has excellent resistance to hot cracking, even under dilution by high carbon, alloy and

tool steels. Unicord 312 is a universal maintenance electrode combining high strength, toughness, wear and corrosion resistance with compatibility to most ferrous metals.

TYPICAL APPLICATIONS:

For repair and maintenance of steels of unknown composition. Also suitable as a buffer or intermediate layer prior to the application of hard surfacing.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Cr	Ni	Mo	Mn	Si	P	S	Cu
0.03	28.61	8.99	0.11	1.04	0.71	0.023	0.024	0.12

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	500 MPa
Tensile Strength	770 MPa
Elongation	45%
Deposit Hardness	28-35 HRc

ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKAGING (KG)		APPROX NO OF RODS PER KG	PART NUMBER
	PACKET	CARTON		
2.5	2.5	12.5	53	UC31225
3.2	2.5	12.5	27	UC31232

FULL PALLET QUANTITY

ELECTRODE SIZE (MM)	WEIGHT (KG)
2.5 & 3.2	900

Supercast Ni

CLASSIFICATION:

- > AWS A5.15: ENi-CI

DESCRIPTION:

- > Supercast Ni is a basic, graphite coated AC/DC electrode for the lower strength welding of cast irons. It is characterised by a soft, smooth arc with low penetration and spatter levels on both AC and DC power sources.
- > Ease of striking is a feature of Supercast Ni and it also has a particularly good wetting action resulting in well bonded welds of regular contour and attractive appearance.

TYPICAL APPLICATIONS:

For repair and build-up of all standard grades of grey cast iron, malleable iron, austenitic cast iron and some grades of meehanite cast iron.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	S	Fe	Ni
1.0	0.21	0.007	0.3	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	200 MPa
Tensile Strength	400 MPa
Deposit Hardness	150-170 HV (30)

ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKAGING (KG)		APPROX NO OF RODS PER KG	PART NUMBER
	PACKET	CARTON		
3.2	2.5	12.5	33	SNI32

FULL PALLET QUANTITY

ELECTRODE SIZE (MM)	WEIGHT (KG)
3.2	900

Supercast Ni/Fe

CLASSIFICATION:

> AWS A5.15: ENiFe-CI

DESCRIPTION:

> Supercast Ni/Fe is a basic, graphite coated AC/DC electrode for the higher strength welding of cast irons.

> It is characterised by a soft, smooth arc with low penetration and spatter levels on both AC and DC power sources.

> Ease of striking is a feature of Supercast Ni/Fe.

> This electrode is made from a Nickel-Iron core wire and produces a ductile, machineable weld deposit with the extra strength required for welding SG (Spheroidal Graphite) irons.

TYPICAL APPLICATIONS:

For repair and build-up of SG irons and all standard grades of grey cast iron, malleable iron, austenitic cast iron and some grades of meehanite cast iron. Also suited to welding these cast irons to steel.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Ni	S	Fe
1.0	0.42	58.0	0.009	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	300 MPa
Tensile Strength	500 MPa
Deposit Hardness	200-220 HV (30)

ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKAGING (KG)		APPROX NO OF RODS PER KG	PART NUMBER
	PACKET	CARTON		
3.2	2.5	12.5	36	SNIFE32



Wires



**HIGH PERFORMING WELDING
WIRES DESIGNED FOR
THE INDUSTRIAL USER.**



Austmig ES6

CLASSIFICATION:

- > AS/NZS 14341-B - G 49A 3U C/M S6
- > AWS A5.18: ER70S-6

DESCRIPTION:

> Copper coated, low carbon steel MIG wire specifically formulated for optimum performance under CO₂ and Ar/CO₂ mixed gases.

TYPICAL APPLICATIONS:

Suitable for welding mild and medium strength steels. Ideal for positional welding of sheet steel and steel pipes and tubes where the high silicon content promotes smooth even weld beads with excellent edge wetting and contour.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	S	P	Fe
0.1	1.45	0.88	0.02	0.022	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	CO ₂	Ar+18% CO ₂
Yield Stress	462 Mpa	450 Mpa
Tensile Strength	570 Mpa	560 Mpa
Elongation	27%	27%
CVN Impact Values	96J @ -30°C	86J @ -30°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
0.6	5kg Spool	ES606M5KG
	15kg Spool	ES606S
0.8	5kg Spool	ES608M5KG
	15kg Spool	ES608S
0.9	5kg Spool	ES609M5KG
	15kg Spool	ES609S
1.0	15kg Spool	ES610S
1.2	15kg Spool	ES612S
1.6	15kg Spool	ES616S

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
0.6, 0.8, 0.9, 1.0, 1.2 & 1.6 (15kg)	1,080



Austmig ESD2

CLASSIFICATION:

- > AS/NZS 14341 - B-G 55A 3U C/M G4M31
- > AWS A5.28: ER80S-D2

DESCRIPTION:

> Copper coated, all positional low alloy wire used for welding medium to high strength steels, particularly where service temperatures up to 500°C are encountered.

TYPICAL APPLICATIONS:

Structural welding of sheet and plate steel (galvanised or otherwise) and tubular sections, including trailers, duct work, hoppers and storage tanks.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	Mo	Fe
0.08	1.84	0.71	0.51	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	Ar+18% CO ₂	CO ₂
Yield Stress	569 Mpa	562 MPa
Tensile Strength	662 Mpa	675 MPa
Elongation	25%	24%
CVN Impact Values	57J @ -30°C	81J @ -30°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
0.9	15kg Spool	ESD209S
1.2	15kg Spool	ESD212S

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
0.9 & 1.2	1,080



Austmig NiCrMo

CLASSIFICATION:

- > AS/NZS 16834-B - G 78A 5U M21 G
- > AWS A5.28: ER110S-G

DESCRIPTION:

> Copper coated, low alloy solid wire suitable for all positional welding of high strength steels using Ar/CO₂ mixed gases.

TYPICAL APPLICATIONS:

Used for full strength welding of quenched and tempered structural steels of 760 MPa tensile class, such as USS-T1, Welten 80, N-A-XTRA and Bisplate 80.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	Ni	Cr	Mo	V	Fe
0.09	1.59	0.54	1.45	0.31	0.23	0.09	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	Ar+18% CO ₂
Yield Stress	770 Mpa
Tensile Strength	880 Mpa
Elongation	18%
CVN Impact Values	68J @ -50 °C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
0.9	15kg Spool	MNICRMO09S
1.2	15kg Spool	MNICRMO12S

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
0.9 & 1.2	1,080



Austmig 5183

CLASSIFICATION:

- > AS/NZS ISO 18273 - S Al 5183
- > AWS A5.10: ER5183

DESCRIPTION:

> Precision layer wound aluminium wire alloyed with Mg, Mn and Cr. Double shaved for superb feedability.

> The Austmig 5183 can achieve higher tensile strength in the as welded condition of alloy 5083, which the filler alloy 5356 will generally fail.

TYPICAL APPLICATIONS:

Recommended for welding 5083 type material in the annealed condition, particularly for low temperature applications where good ductility and toughness are required such as cryogenic plants and boat building.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
0.4	0.4	0.1	0.5 - 1.0	4.3 - 5.2	0.05 - 0.25	0.25	0.15	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	Ar
Yield Stress	110 Mpa
Tensile Strength	240 Mpa
Elongation	17%

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	6kg Spool	M518312S
1.6	6kg Spool	M518316S

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
1.2 & 1.6	504



Austmig 5356

CLASSIFICATION:

- > AS/NZS ISO 18273 - S Al 5356
- > AWS A5.10: ER5356

DESCRIPTION:

- > Precision layer wound Al/5%Mg wire suitable for welding wrought or cast aluminium alloys containing magnesium as the major alloying element.
- > The Austmig 5356 is the most widely used welding alloy filler metal, due to

its excellent corrosion resistance and high shear strength.

TYPICAL APPLICATIONS:

Suitable for welding selected grades of wrought Al/Mg alloys including 5083, 5086, 5454 and 5456.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

Zn	Mg	Mn	Cr	Si	Fe	Ti	Al
0.1	5.2	0.15	0.1	0.25	0.4	0.15	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	Ar
Yield Stress	125 Mpa
Tensile Strength	275 Mpa
Elongation	17%

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
0.9	2kg Spool	M5356092KG
	6kg Spool	M535609S
1.0	2kg Spool	M5356102KG
	6kg Spool	M535610S
1.2	2kg Spool	M5356122KG
	6kg Spool	M535612S
1.6	6kg Spool	M535616S

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
0.9, 1.0, 1.2 & 1.6	504



Austfil 70C-6M

CLASSIFICATION:

- > AS/NZS ISO 17632-B - T494T15-OMA-UH5
- > AWS A5.18: E70C-6M

DESCRIPTION:

- > A metal-cored wire designed for high speed fillet and butt welding in the down-hand position using Argon + 18-25% CO₂ shielding gas mixtures. Weld beads are almost completely slag free with only minimal silicon islands, reducing the time and effort spent cleaning up prior to painting, coating or plating.

TYPICAL APPLICATIONS:

Recommended for single pass and multi pass welding in both the flat and horizontal positions for mild, carbon and manganese carbon steels with minimum clean up and where high deposition rates and efficiencies are required in high productivity, semi-automatic and fully automatic welding installations.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	S	P	Cu	Fe
0.05	1.62	0.58	0.006	0.012	0.03	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	Ar+25% CO ₂
Yield Stress	569 Mpa
Tensile Strength	634 Mpa
Elongation	28%
CVN Impact Values	62J @ -40°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	15kg Vacuum Packed Spool	70C6M12S
1.6	15kg Vacuum Packed Spool	70C6M16S
1.2	250kg Drum	70C6M12D

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
1.2 & 1.6 (15kg)	1,080
1.2 (250kg)	1,000



Austfil 71T

CLASSIFICATION:

- > AS/NZS ISO 17632-B - T492T1-1 CA-UH10
- > AWS A5.20: E71T-1 H8

DESCRIPTION:

> A flux cored wire designed for excellent performance in all positional fillet weld and butt-welding applications. It is formulated exclusively for use with cost effective CO₂ shielding gas.

TYPICAL APPLICATIONS:

- > Recommended for general purpose all positional welding of mild carbon and carbon-manganese steels where an excellent weld profile and penetration is required.
- > Suitable for applications such as storage tanks, structural fabrication, machinery, earth moving equipment and fatigue loaded structures.



TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	S	P	Fe
0.03	1.28	0.44	0.01	0.013	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	CO ₂
Yield Stress	531 Mpa
Tensile Strength	580 Mpa
Elongation	26%
CVN Impact Values	93J @ -20°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	15kg Spool	71T112S
1.6	15kg Spool	71T116S

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
1.2 & 1.6	1,080



Austfil 71T-1M

CLASSIFICATION:

- > AS/NZS ISO 17632-B - T493T1-1MA-UH10
- > AWS A5.20: E71T-1M

DESCRIPTION:

- > All positional rutile micro-alloyed type flux cored wire formulated for Ar/CO₂ shielding gas mixtures (18-25% CO₂). For optimum performance, Argon with 25% CO₂ is recommended.
- > Exceptionally smooth arc performance producing a superb weld with low spatter losses in all positions with excellent operator appeal.

TYPICAL APPLICATIONS:

- > Recommended for the welding of mild, carbon and carbon-manganese medium steels where good impact properties at -30 °C are required.
- > Typical applications include steel fabrication such as plate sections, beams, girders, truck chassis/bodies, ship building, earth moving equipment and storage tanks.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	S	P	B	Fe
0.04	1.15	0.35	0.004	0.013	0.004	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	Ar+25% CO ₂
Yield Stress	511 Mpa
Tensile Strength	566 Mpa
Elongation	32%
CVN Impact Values	131J @ -30°C, 108J @ -20°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	15kg Spool	71T1M12S

FULL PALLET QUANTITY

WIRE SIZE (KG)	WEIGHT (KG)
1.2	1,080



Formula XL-525

CLASSIFICATION:

- > AS/NZS ISO 17632-B - T494T1-1MA-U H5
- > AS/NZS ISO 17632-B - T494T12-1MA-U H5
- > AWS A5.20: E71T-1M, E71T-12MJ H8

DESCRIPTION:

> A rutile flux cored all position wire designed for welding mild and carbon steels, especially when good impact toughness is required at sub zero temperatures.

> Ideal for single and multi-pass applications, it delivers outstanding welding performance and produces high quality X-ray clear weld deposit with a bead contour that is flat to slightly convex. It performs exceptionally well over rust,

mill scale and some primers with no pre-cleaning of the steel necessary.

> Formula XL-525 has outstanding mechanical properties that resemble those of E7018 MMAW (SMAW) electrodes, plus high operator appeal with low fume levels, low spatter and easy slag removal.

TYPICAL APPLICATIONS:

Recommended for ship building, storage vessels, off-shore structures, earth moving equipment and pipe welding.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	Ni	Fe
0.04	1.24	0.29	0.37	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	Ar+20% CO ₂
Yield Stress	503 Mpa
Tensile Strength	566 Mpa
Elongation	29%
CVN Impact Values	90J @ -40°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	15kg Spool	S283212-029
1.6	15kg Spool	S283219-029

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
1.2 & 1.6	1,080



FabCO 811N1

CLASSIFICATION:

- > AS/NZS ISO 17632-B - T554T1-1C/MA-N2-UH5
- > AWS A5.29: E81T1-Ni1CJ H4, E81T1-Ni1MJ H4

DESCRIPTION:

> Designed for mining and earthmoving equipment and other fabrication where low temperature impact values are needed.

> The improved slag system of this wire provides the superior welder appeal of acid slag (-T1) products and the mechanical properties normally associated with basic slag wires. Weld

metal diffusible hydrogen levels are kept low, making this an excellent choice for the more demanding applications.

TYPICAL APPLICATIONS:

High-strength low-alloy steels, bridge fabrication, structural fabrication, heavy equipment fabrication, shipbuilding, weathering steels when color-match is not required.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

	C	Mn	P	S	Si	Ni
100% CO ₂	0.03	1.09	0.007	0.005	0.32	1.01
75% Ar/25% CO ₂	0.06	1.39	0.009	0.008	0.53	1.00

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Hydrogen Equipment	100% CO ₂	75% Ar/25% CO ₂
Gas Chromatography	2.4ml/100g	3.0ml/100g

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	100% CO ₂	75% Ar/25% CO ₂
Tensile Stress	572 Mpa	641 Mpa
Yield Strength	503 Mpa	586 Mpa
Elongation	27	23
CVN Impact Values	88J @ -40°C	54J @ -40°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	15kg Vacuum Packed Spool	S283612-053
1.6	15kg Vacuum Packed Spool	S283619-053

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
1.2 & 1.6	1,080



FabCO 803



CLASSIFICATION:

- > AS/NZS ISO 17632-B - T555T1-1C/MA-N5-UH5
- > AWS A5.29: E81T1-Ni2C/MJ H4

DESCRIPTION:

- > Offers excellent arc stability and low spatter using either CO₂ or Ar/CO₂ mixtures with up to 80% Argon.
- > These weldability features, combined with low diffusible hydrogen levels and good impact values makes the wire a

good choice for single and multiple pass welding in all positions.

TYPICAL APPLICATIONS:

Applications include ship building, offshore drilling rigs, HSLA steels and weathering steels with no colour match requirement.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

SHIELDING GAS	C	Mn	Si	P	S	Ni
100% CO ₂	0.04	1.00	0.29	0.010	0.012	1.84
75% Ar/25% CO ₂	0.05	1.25	0.40	0.010	0.010	2.00

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	100% CO ₂	75% Ar/25% CO ₂
Yield Stress	535 Mpa	598 Mpa
Tensile Strength	609 Mpa	660 Mpa
Elongation	27.5%	24%
CVN Impact Values	98J @ -40°C 92J @ -51°C	74J @ -40°C 60J @ -51°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	15kg Vacuum Packed Spool	S283712-053
1.6	15kg Vacuum Packed Spool	S283719-053

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (MM)
1.2 & 1.6	1,080



Fabshield 4



CLASSIFICATION:

- > AS/NZS ISO 17632-B - T49ZT4-0NA-H15
- > AWS A5.20: E70T-4

DESCRIPTION:

- > Very high deposition rate, self-shielding flux cored wire for down hand single or multi-pass welding applications.
- > Specifically designed to desulphurise the weld deposit to reduce risk of weld cracking.

TYPICAL APPLICATIONS:

Typical applications include on site field construction and repair of structural members and machinery.



TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	P	S	Al	Fe
0.27	0.73	0.30	0.011	0.005	1.42	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	432 MPa
Tensile Strength	652 MPa
Elongation	25%
CVN Impact Values	Not Required

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
2.4	22.7kg Coil	S224529-014
3.0	22.7kg Coil	S224541-014

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
2.4 & 3.0	726.4



Fabshield 21B

CLASSIFICATION:

- > AS/NZS ISO 17632-B - T49ZT11-1NA-H15
- > AWS A5.20: E71T-11

DESCRIPTION:

> An all positional general purpose, self-shielding, flux cored wire, designed specifically for single and multi-pass welding of mild steel and galvanised steel up to a maximum of 20mm in thickness.

TYPICAL APPLICATIONS:

- > For on-site welding applications including farm and rural fabrication, fences, frames and sheds, etc.
- > Other uses include prefabricated steel frame construction, galvanised tank fabrication, repair of trucks, tractors and earth moving equipment.

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	427 MPa
Tensile Strength	627 MPa
Elongation	22%
CVN Impact Values	Not Required

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
0.8	4.5kg Spool	S222106-022
0.9	4.5kg Spool	S222108-022
0.9	15kg Spool	S222108-029
1.2	4.5kg Spool	S222112-022
1.2	15kg Spool	S222112-029
1.6	15kg Spool	S222119-029
2.0	15kg Spool	S222125-029

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
0.8, 0.9 & 1.2 (4.5kg)	864
0.9, 1.2, 1.6 & 2.0 (15kg)	1,080

SHIPPING QUANTITY (KG)

- 0.8, 0.9 (4.5kg) - 27 (6 spools)
- 1.2 (4.5kg) -18 (4 spools)

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	S	P	Al	Fe
0.28	0.34	0.15	0.008	0.003	1.72	Bal



Fabshield XLR-8



CLASSIFICATION:

- > AS/NZS ISO 17632-B - T494T8-1NA-H10
- > AWS A5.20: E71T-8JD H8

DESCRIPTION:

> Low hydrogen T-8 self-shielded, all positional flux cored wire, producing a stable arc and flat bead profile, especially suited for vertical-up welds at high currents with excellent mechanical properties and a tensile strength of 490 MPa.

> Capable of depositing X-ray quality welds, making it highly suitable for critical welding applications requiring a high degree of crack resistance due to its low diffusible hydrogen levels, less than 6.7ml per 100g of weld metal deposited.

> XLR-8 has been designed for single and multi-pass welding applications with improved productivity in out-of-position welding, offering high impact strength of (42J) at sub zero temperatures to -40°C.

TYPICAL APPLICATIONS:

Specifically designed for increased productivity and high deposition rates on challenging structural steel erection, heavy equipment repair, mining equipment, bucket repairs, storage tanks, pipe spooling, ship construction and site work applications.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	P	S	Al	Fe
0.19	0.51	0.17	0.009	0.006	0.51	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	469 Mpa
Tensile Strength	579 Mpa
Elongation	28%
CVN Impact Values	42J @ -40°C, 54J @ -30°C, 68J @ -20°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.6	15kg Vacuum Packed Spool	S225719-053
1.8	15kg Vacuum Packed Spool	S225724-053
2.0	15kg Vacuum Packed Spool	S225725-053
2.0	22.7kg Coil	S225725-014

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
1.6, 1.8 & 2.0 (15kg)	1,080
2.0 (22.7kg)	726.4





Hardfacing Products



**HIGH QUALITY HARDFACING
ELECTRODES AND WIRES.**

Abrasocord 43

CLASSIFICATION:

> AS/NZS 2576: 2465-A4

DESCRIPTION:

> Heavy coated hardfacing electrode depositing very hard Chromium/ Niobium carbides in an austenitic matrix.

> It is ideal for hard surfacing applications where resistance to extreme abrasion (in particular sliding abrasion) and moderate to heavy impact are required.

TYPICAL APPLICATIONS:

Suitable for applications where resistance to extreme abrasion and moderate to heavy impact are required such as press screw, grizzly bars, crusher hammers, ripper teeth and shovel teeth.



TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Cr	Nb	Fe
5.0	0.7	22.0	7.0	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Single Layer onto Mild Steel	Typical Hardness 60-65 HRc
Multi-Layer	Typical Hardness 64-69 HRc

ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKAGING (KG)		APPROX NO OF RODS PER KG	PART NUMBER
	PACKET	CARTON		
3.2	5	15	16	AC4332
4.0	5	15	11	AC4340

Abrasocord 350

CLASSIFICATION:

> AS/NZS 2576: 1435-A4

DESCRIPTION:

> Smooth running, AC/DC electrode depositing a tough wear resistant air hardening C/Mn/Cr steel alloy which is machinable and can be readily hot forged.

> It offers high compressive strength and excellent resistance to impact for all types of metal-to-metal wear.

TYPICAL APPLICATIONS:

Suitable for the heavy build-up and surfacing of steel components subjected to metal-to-metal wear and compressive loading such as, track components, gears and shafts, etc.



TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	Cr	Fe
0.2	0.4	0.3	2.8	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Single Layer onto Mild Steel	Typical Hardness 30-35 HRc
Multi-Layer	Typical Hardness 35-40 HRc

ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKAGING (KG)		APPROX NO OF RODS PER KG	PART NUMBER
	PACKET	CARTON		
3.2	5	15	24	HF35032
4.0	5	15	16	HF35040

Abrasocord 700

CLASSIFICATION:

> AS/NZS 2576: 1855-A4

DESCRIPTION:

> Smooth running, AC/DC electrode depositing an air hardening martensitic Cr/Mo/V steel alloy.

> It is one of the hardest steel alloys available, is free from relief checks and offers good resistance to all types of abrasion under low to moderate impact conditions.

TYPICAL APPLICATIONS:

Suitable for surfacing of post hole augers, agricultural points, shares and tynes, grader and cultivator blades and other components subject to fatigue or flexing during service.



TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	Cr	Mo	V	Fe
0.7	0.3	0.5	8.5	0.3	0.5	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Single Layer onto Mild Steel	Typical Hardness 53-56 HRC
Multi-Layer	Typical Hardness 55-60 HRC

ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKAGING (KG)		APPROX NO OF RODS PER KG	PART NUMBER
	PACKET	CARTON		
3.2	5	15	29	HF70032
4.0	5	15	18	HF70040
5.0	5	15	10	HF70050

TubeCORD D-2355

CLASSIFICATION:

> AS/NZS 2576: 2355-A1*
* Nearest Classification

DESCRIPTION:

> Weld deposit offers improved abrasion resistance through high levels of carbon and chromium.

> Ideal for hard surfacing components subjected to heavy abrasion and moderate impact loading.

TYPICAL APPLICATIONS:

Applications include hard surfacing of dredge bucket lips, shovel buckets, scraper and dozer sides, cone crushers and mill hammers, etc. Deposits are grindable, subject to relief checking and may be multi-layered up to 3 layers.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Cr	Mn	Fe
5.5	40.0	1.5	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Single Layer	Typical Hardness 55-60 HRC
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ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKAGING (KG)		PART NUMBER
	PACKET	CARTON	
6.3	5	15	TUBD60



Tubecord E-2460

CLASSIFICATION:

> AS/NZS 2576: 2460-A1

DESCRIPTION:

> Weld deposit contains carbon, chromium, niobium and molybdenum for good resistance to both impact and abrasion.

TYPICAL APPLICATIONS:

Applications include hard surfacing of grizzly bars, bucket teeth, crusher hammers, rail ballast tampers, dredger and ripper teeth etc.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Cr	Mo	Nb	V	Mn	Si	Fe
4.0	26.5	0.9	7.9	0.4	0.8	1.5	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Singe Layer onto Mild Steel | Typical Hardness 58-61 HRc

ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKAGING (KG)		PART NUMBER
	PACKET	CARTON	
6.3	5	15	TUBE60
8.0	5	15	TUBE80



Austmig TD-600

CLASSIFICATION:

> AS/NZS 2576: 1855-B6

DESCRIPTION:

> A copper coated, chromium alloy welding wire depositing weld metal with a hardness of 55-60 HRc which has a high resistance against severe abrasion and impact. The deposit is non-machineable but can be shaped by grinding.
 > Recommended shielding gas: Argon/18-25/CO₂ or 100% CO₂.

TYPICAL APPLICATIONS:

Applications include excavator blades, bucket lips, bucket teeth, screw conveyors, crushing mills and shear blades.



TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Si	Mn	P	S	Cr	Fe
0.45	0.40	0.36	0.018	0.002	9.30	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

As Welded - Two Layers | 55-60 HRc

ORDERING INFORMATION

ELECTRODE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	15kg Spool	MTD60012S



Tube-Alloy 240-0

CLASSIFICATION:

> AS/NZS 2576: 2155-B7

DESCRIPTION:

> Chromium carbide surfacing alloy self-shielded hard surfacing wire which can be used on components subject to severe abrasive wear and heavy impact. Tougher than conventional chromium carbide.

TYPICAL APPLICATIONS:

Applications include final overlays on roll crusher shells, final overlays on hammermill hammers, cone crushers, shovel teeth, augers and screw conveyors.

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

HARDNESS	NUMBER OF LAYERS	AS DEPOSITED	
		1020 STEEL	Mn STEEL
	1	40 HRc	35 HRc
	2	48 HRc	42 HRc
	3-5	52 HRc	50 HRc

Abrasion Resistance	Very Good
Impact Resistance	Fair
Non Machinable	Grinding Is Difficult
Cannot Be Flame Cut	
Deposit Will Relief Check Crack	
Thickness Should be Limited to Five Layers Maximum	

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Cr	Nb	Fe
3.20	1.80	1.90	15.50	Bal

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	11.3kg Coil	S604012-029



Tube-Alloy 258-0

CLASSIFICATION:

> AS/NZS 2576: 1550-B7

DESCRIPTION:

> A fabricated type, open arc tubular flux cored wire depositing a Cr-Mo-W Martensitic steel alloy.
 > It is designed for surfacing mild and low alloy steel components subject to moderate abrasive wear and impact under high compressive stresses and/or at temperatures up to 530°C.

> Crack free deposits can be obtained by controlled heat input or the use of preheat.

TYPICAL APPLICATIONS:

Applications include machine components, tools and sliding metal to metal parts, dragline chains, kiln trunnions, mill guides, spindles and wobbler ends.

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

HARDNESS	NUMBER OF LAYERS	AS DEPOSITED	
		1020 STEEL	Mn STEEL
	1	49 HRc	51 HRc
	2	53 HRc	54 HRc
	3-5	57 HRc	57 HRc

Abrasion Resistance	Good
Impact Resistance	Good
Non Machinable	Grinding Only
Flame Cutting	Difficult
Heat Treatable and Forgettable	
Maintains Hot Hardness up to 530°C	

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	Cr	Mo	W	Fe
0.45	1.40	0.80	6.00	1.50	1.50	Bal

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	11.3kg Coil	S605812-029



Tube-Alloy A43-0

CLASSIFICATION:

> AS/NZS 2576: 2460-B7

DESCRIPTION:

> Self shielding wire depositing a high Cr/Nb surfacing alloy which resists severe high and low stress abrasion and low to moderate impact.
 > The weld deposit will check crack readily and can be used where high temperature wear resistance is required.

TYPICAL APPLICATIONS:

Applications include augers, bucket lips and teeth, coal pulverizer rolls and tables, coke chutes, conveyor screws, dredge cutter heads and teeth, fan blades, grizzly and fingers, muller tires, paving agitator screws, pipeline ball joints, pulp mill paddles, scraper blades, sheepsfoot tampers and sizing screws.

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

HARDNESS	NUMBER OF LAYERS	AS DEPOSITED	
		1020 STEEL	Mn STEEL
	1	56-60 HRc	45-50 HRc
	2	60-64 HRc	54-58 HRc
Abrasion Resistance		Excellent	
Impact Resistance		Poor	
Non Machinable		Grinding Only	
Can Not Be Flame Cut			
Deposit Will Relief Check Crack			
Thickness 2-3 Layers Maximum			

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	Cr	Nb	Fe
5.50	0.20	1.00	22.00	6.50	Bal

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.6	11.3kg Coil	S607719-029



Vertiwear 600

CLASSIFICATION:

> AS 2576: 1855-B5*
 *Nearest Classification

DESCRIPTION:

> Gas shielded, all position, hard surfacing flux cored wire depositing a multi-purpose martensitic steel alloy. Can be used to hard surface mild and low alloy steel components subject to moderate abrasion coupled with medium to high impact.

> It also exhibits excellent compressive strength and metal to metal wear resistance. Excellent operator appeal in all positions.
 > Recommended shielding gas is 75% Argon -25% CO₂.

TYPICAL APPLICATIONS:

Typical applications include ripper teeth, dozer blades, dragline chains, facing of agricultural points and equipment, sliding metal parts and kiln trunnions.

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

HARDNESS	NUMBER OF LAYERS	AS DEPOSITED	
		1020 STEEL	
	1	52 HRc	
	2	56 HRc	
	3 - 8	57 HRc	
HARDNESS AS DEPOSITED	TIME AT TEMP	HARDNESS AFTER TEMPERING	
		535°C	620°C
55 HRc	10 Hours	54 HRc	46 HRc
	20 Hours	49 HRc	40 HRc
	80 Hours	47 HRc	40 HRc
Abrasion Resistance:		Good	
Impact Resistance:		Good	
Machinability:		Good	
Flame Cutting:		Difficult	
Magnetic			

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	Cr	Mo	Fe
0.40	0.75	0.60	6.50	1.00	Bal

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	15kg Spool	S607112-029

Welding Safety



PROTECTION, PERFORMANCE & COMFORT.

When it comes to welding safety equipment, it's important to select a high quality welding helmet that is compliant with Australian Standards, to ensure protection of both the eyes and face during welding.

All WIA and Miller helmets have been tested to and comply with Australian and New Zealand standards - AS/NZS 1337.1 B (High Impact) and AS/NZ 1338.1 (Auto-Darkening).

When you select a WIA or Miller brand of Auto-Darkening helmet, you can be confident that you are using a high quality product that has undergone stringent testing to Australian and New Zealand standards.



Auto-Darkening Helmet Selection Chart



MODEL	SHADE	ARC SENSORS	SWITCHING SPEED	VIEWING AREA	GRIND MODE	WARRANTY
 WIA Blue	9-13	2	1/10,000 Sec	97 x 46mm	Yes	1 Year (Auto-Darkening Lens Only)
 Miller Performance™	9-13	3	1/20,000 Sec	97 x 47mm	Yes	3 Years (Auto-Darkening Lens Only)
 Miller Digital Elite™	9-13	4 independent sensors - plus X-Mode	1/20,000 Sec	97 x 60mm	Yes	3 Years (Auto-Darkening Lens Only)
 Miller Titanium 9400™	9-13	4 independent sensors - plus X-Mode	1/20,000 Sec	97 x 60mm	Yes	3 Years (Auto-Darkening Lens Only)
 Miller Titanium 9400i™	9-13	4 independent sensors - plus X-Mode	1/20,000 Sec	97 x 60mm	Yes	3 Years (Auto-Darkening Lens Only)

AUSTRALIAN STANDARDS

AS/NZS 1338.1 (Auto-Darkening)

AS/NZS 1337.1 B (High Impact)



WIA Blue Helmet

Part No: 235620

DESIGNED FOR THE WELDER WHO WANTS PROTECTION, PERFORMANCE & COMFORT AT AN AFFORDABLE PRICE.



AUSTRALIAN STANDARDS

AUSTRALIAN STANDARDS

Tested in Australia, the lens and helmet comply with Australian Standards AS/NZS 1338.1 (Auto-Darkening) and AS/NZS 1337.1 B (High Impact).



VARIABLE SHADE CONTROL

Variable control for adjustment of shade, lens sensitivity and delay for maximum control when welding. Shade 9-13.



BIG VIEWING AREA

With a viewing area larger than most helmets in its class, the operator gets a better visual of the working area.



CONVENIENT EXTERNAL SHADE CONTROL

Provides flexibility to adjust shade control while welding.



OPERATOR COMFORT

High quality headgear - comfortable, lightweight and fully adjustable for easy adjustment to provide maximum face and neck protection. Weighs only 515g.



MAGNIFYING LENS HOLDER

Built-in provision for magnifying lens*, if required. *Magnifying lens not included.





BATTERY POWERED WITH SOLAR-ASSIST

For exceptionally long life and no charging required! Features auto on/off function and low battery indicator. Delivers up to 1500 hours of interruption free welding with MIG, Stick and Inverter power sources - meaning your helmet will always be ready to go when you are. Replaceable battery.



GRIND MODE

Comes standard with Grind Mode, meaning you can use one helmet for all your welding requirements - including weld preparation and clean-up.



DUAL ARC SENSORS

Provides continuous arc sensing capability. Lens automatically switches from light state 4 to adjustable welding shades 9-13 when an arc is struck. Lens darkening reaction time 1/10,000 sec.



1 YEAR WARRANTY

Like all WIA products, this product is manufactured with quality in mind. Tested under stringent conditions, we provide a 1 year warranty for your peace of mind.

PRODUCT SPECIFICATIONS	
Part Number	235620
Viewing Area	97 X 46mm
Cartridge Size	110 X 90mm
Variable Shades	9 to 13
Light State	4
Grind Mode	Yes
Switching Speed (Light to Dark)	1/10,000 Sec
Delay Speed (Dark to Light)	0.1 - 1.0 Sec
Arc Sensors	2
Weight	515g
Power	Lithium Battery & Solar-Assist
On/Off Control	Automatic
Operating Temperature	-5 °C to +55 °C
Warranty	1 Year (Auto-Darkening Lens Only)

STANDARDS
AS/NZS 1338.1 (Auto-Darkening)
AS/NZS 1337.1 B (High Impact)
ANSI Z87.1-2003 (High Impact)
DIN/TUV/CSA

PARTS AND ACCESSORIES	
Front Lens Gasket	235758
Front Cover Lens (pkt 5)	235621P
Replacement Filter Lens (Indent)	770671
Inside Cover Lens (pkt 5)	770237P
Ratchet Headgear Assembly	770246
Replaceable Battery	217043

Not Suitable for Low Current TIG Applications.
Refer to Performance, Digital Elite and Titanium Helmets.

Digital Performance™ Series

Part No: Black - 256159, Custom 64' - 256160

Reliable, General Purpose Welding Helmet.



BLACK

CUSTOM 64'



LIGHTWEIGHT HEADGEAR

The lightweight headgear has multiple settings to achieve the best fit and comfort.



3 YEAR WARRANTY

Designed to withstand industrial environments, every Miller helmet comes with a 3 year warranty (Auto-Darkening lens only).

AUSTRALIAN STANDARDS

AUSTRALIAN STANDARDS

Tested in Australia, the lens and helmet comply with Australian Standards AS/NZS 1338.1 (Auto-Darkening) and AS/NZS 1337.1 B (High Impact).

DIGITAL CONTROLS

Allows the user to easily adjust mode, shade, delay and sensitivity.

THREE INDEPENDENT ARC SENSORS

Digital lens and three independent arc sensors for superior arc sensing.

3 OPERATING MODES

Weld, Cut and Grind.

BATTERY POWERED WITH SOLAR ASSIST

Two replaceable lithium batteries, with solar assist, deliver up to 3000 hours of use.



QUICK RELEASE COVER LENS

Allows for easy replacement of cover lenses.

LIGHTWEIGHT

At only 482g, the helmet can be worn for long periods, keeping operator fatigue to a minimum.

AUTO ON-OFF

Power control triggers lens at the strike of an arc.

MAGNIFYING LENS COMPATIBLE

Add a magnifying lens* if required. Available in 1.5, 2.0 and 2.5 magnification.

*Magnifying lens not included.

BONUS ACCESSORIES INCLUDED:

- > 5 outside cover lenses.
- > 2 inside cover lenses.
- > Helmet bag.



PRODUCT SPECIFICATIONS	
Viewing Area	97 x 47mm
Operating Modes	3 Modes: Weld, Cut & Grind
Arc Sensors	3 Independent Sensors
Variable Shades	9-13
Light State	4 (All Modes)
Grind Mode	Shade # 3-5
Cut Mode	Shade # 5-9
X-Mode	Shade # 9-3
TIG Rating	5 Amps
Power	Replaceable Lithium Batteries (2); up to 3000 Hours
Switching Speed (Light-Dark)	1/20,000 Sec
Delay Speed (Dark-Light)	0.10-1.0 Sec
On/Off Control	Automatic
Magnifying Lens Holder	Yes
Weight	482g
Warranty	3 Years (Auto-Darkening Lens Only)

STANDARDS	
AS/NZS 1338.1 (Auto-Darkening)	
AS/NZS 1337.1 B (High Impact)	
ANSI Z87.1-2003 (High Impact)	
DIN/TUV/CSA	

PARTS AND ACCESSORIES	
Front Lens Gasket	232028
Front Lens Cover (5 Pk)	231921P
Lens Filter	256468
Inside Lens Cover	770237P
Ratchet Headgear	256174
Headband, Foam	770249
Headband, Towelling	770299
Adjustment Angle/Stop Kit	256178
Helmet Carry Bag with Miller Logo	770250
Magnifying Lens	
1.5 Magnification	212238P
2.0 Magnification	212240P
2.5 Magnification	212242P

Digital Elite™ Series

Part No: Black - 257213, Inferno - 257217,

Lucky's Speed Shop - 257214, Joker - 257218

Four Modes - Weld, Cut, Grind & X-Mode.

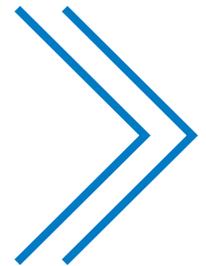


BLACK

INFERNO

LUCKY'S SPEED SHOP

THE JOKER



AUSTRALIAN STANDARDS

AUSTRALIAN STANDARDS

Tested in Australia, the lens and helmet comply with Australian Standards AS/NZS 1338.1 (Auto-Darkening) and AS/NZS 1337.1 B (High Impact).

MAGNIFYING LENS COMPATIBLE

Add a magnifying lens if required. *Magnifying lens not included.



IMPROVED DIGITAL CONTROLS

Allows the user to easily adjust mode, shade, delay and sensitivity.

BATTERY POWERED WITH SOLAR ASSIST

Two replaceable lithium batteries, with solar assist, deliver up to 3000 hours of use.

LIGHTWEIGHT

At only 510g, the helmet can be worn for long periods, keeping operator fatigue to a minimum.



LIGHTWEIGHT HEADGEAR

The lightweight headgear has multiple settings to achieve the best fit and comfort.

FOUR INDEPENDENT ARC SENSORS

Provide continuous arc sensing for the most demanding applications plus superior lens response.

SUITS A WIDE RANGE OF WELDING PROCESSES

MIG, Stick, TIG, Flux Cored and Pulse.

3 YEAR WARRANTY

3 YEAR WARRANTY

Designed to withstand industrial environments, Miller helmets now come with a 3 year warranty (Auto-Darkening lens only).

BONUS ACCESSORIES INCLUDED:

- > 5 outside cover lenses.
- > 2 inside cover lenses.
- > Helmet bag.

WHAT IS X-MODE?

Sensors are normally triggered by the light when you strike an arc. In X-Mode, the sensors are triggered by the electromagnetic field that is created when you start a weld.

X-Mode overcomes instances where obstructions block a sensor when welding out-of-position. Even when there is an obstruction, the sensor will still trigger because of the electromagnetic field.

For outside work, X-Mode will stop the lens constantly lightening and darkening because of the light triggering the sensors. The sensors will only trigger the lens to darken when you start to weld.

PRODUCT SPECIFICATIONS

Viewing Area	97 x 60mm
Operating Modes	4 Modes: Weld, Cut, Grind, X-Mode
Arc Sensors	4 Independent Sensors Plus X-Mode
Variable Shades	9-13
Light State	4 (All Modes)
Grind Mode	Shade 4
Cut Mode	Shade 5-9
X-Mode	Shade 9-13
TIG Rating	5 Amps and Below
Power	Replaceable Lithium Battery up to 3000 Hours
Switching Speed (Light - Dark)	1/20,000 Sec
Delay Speed (Dark - Light)	0.10-1.0 Sec
On/Off Control	Automatic
Magnifying Lens Holder	Yes
Weight	510g
Warranty	3 Years (Auto-Darkening Lens Only)
Rec. Amps GMAW (MIG) MMAW (Stick)	Up to 400 Amps*
Rec Amps GTAW (TIG)	5-350 Amps**

STANDARDS

AS/NZS 1338.1 (Auto-Darkening)
 AS/NZS 1337.1 B (High Impact)
 ANSI Z87.1-2003 (High Impact)
 DIN/TUV/CSA

DIGITAL LENS TECHNOLOGY

WELD	Suits MIG, Stick, TIG, Flux Cored and Pulse welding processes. Shades 9-13.
CUT	Suits Plasma, Laser, Gas welding and cutting applications. Shades 5-9.
GRIND	Suits weld preparation and clean-up. Fixed shade 3.
X-MODE	Electromagnetic arc sensing technology eliminates sunlight interference, intermittent sensing (pipe), low Amperage lens openings (TIG) & obstructed sensors. Shades 9-13.

PARTS AND ACCESSORIES

Front Lens Gasket	216337
Front Lens Cover (5 Pk)	216326P
Filter Lens Gasket	234758
Filter Lens	256469
Inside Lens Cover	216327P
Lens Holder	234759
Battery Holder (Left & Right)	216339
Replacement Lithium Battery (X2)	217043
Ratchet Headgear	256174
Comfort Cushion	216336
Sweatband Towelling (5 Pk)	770299
Adjustment Angle/Stop Kit	256178
Lens Holder (External)	241978
Helmet Carry Bag with Miller Logo	770250
Magnifying Lens	212238P 212240P 212242P

*X-Mode eliminates sunlight interference, intermittent sensing (pipe), low Amperage lens openings (TIG) and obstructed sensors.

**Amperage ratings may vary for processes involving aluminium and stainless steel.

Titanium Series

Part No: Titanium 9400 - 256176, Titanium 9400i - 256177

Heavy Duty Protection.



EXCLUSIVE! INFOTRACK™ TECHNOLOGY.



TITANIUM™ 9400

SUITS HIGH AMPERAGE APPLICATIONS

The shell reflects heat to assist in keeping the helmet and user cool, while the aluminium heat shield protects and extends the working life of the lens and helmet.

EXTERNAL GRIND CONTROL*

Allows the user to switch between weld and grind modes at the push of a button. *Available on 9400 model only.

TITANIUM™ 9400i



LIGHTWEIGHT HEADGEAR

The lightweight headgear has multiple settings to achieve the best fit and comfort.



AUSTRALIAN STANDARDS

Tested in Australia, the lens and helmet comply with Australian Standards AS/NZS 1338.1 (Auto-Darkening) and AS/NZS 1337.1 B (High Impact).



INFOTRACK™ TECHNOLOGY

Exclusive arc tracking technology that includes a digital clock and alarm, makes it possible to track welding time.

X-MODE

Weld, cut and grind with one helmet. Plus, there's X-Mode for outdoor or out-of-position welding.

X-Mode eliminates:

- Sunlight interference.
- Intermittent sensing - pipe.
- Low Amperage lens openings - TIG.
- Obstructed sensors.



INTEGRATED GRIND SHIELD*

Provides 180° field of view while grinding and complies with Australian High Impact Standards. *Only available on 9400i model.

MAGNIFYING LENS COMPATIBLE

Add a magnifying lens* if required. Available in 1.5, 2.0 and 2.5 magnification. *Magnifying lens not included.

3 YEAR WARRANTY

Designed to withstand industrial environments, the Titanium Series helmets come with a 3 year warranty (Auto-Darkening lens only).



BATTERY POWERED WITH SOLAR ASSIST

Two replaceable lithium batteries, with solar assist, deliver up to 3000 hours of use.

DURABLE SHOCK-ABSORBING GASKET

Protects the lens from drop impact.

BONUS ACCESSORIES INCLUDED

- > 5 outside cover lenses.
- > 2 inside cover lenses.
- > Helmet bag.

WHAT IS INFOTRACK™?

InfoTrack™ is an exclusive Miller technology which records arc-on time and provides a digital clock with the ability to set an alarm or timer.

The built-in alarm reminds operators to take a break from welding to keep fatigue to a minimum, especially important in hot environments.

Being able to record actual arc time makes it easier to know the welding time for a particular job.

PRODUCT SPECIFICATIONS		
	TITANIUM 9400	TITANIUM 9400i
Viewing Area	97 x 60mm	97 x 60mm
Operating Modes	Weld, Cut, Grind & X-Mode*	Weld, Cut, Grind & X-Mode*
Arc Sensors	4 Independent Sensors Plus X-Mode	4 Independent Sensors Plus X-Mode
InfoTrack™ Lens Technology	Yes	Yes
Variable Shades	9-13	9-13
Light State	4 (All Modes)	4 (All Modes)
Grind Mode	Shade 4	Integrated Grind Shield
Cut Mode	Shades 5-9	Shades 5-9
X-Mode	Shades 9-13	Shades 9-13
TIG Rating	5 Amps	5 Amps
Power	Replaceable Lithium Batteries (2) with Solar Assist: up to 3000 Hours	Replaceable Lithium Batteries (2) with Solar Assist: up to 3000 Hours
Low Battery Light	Red LED Shows 2-3 Days of Remaining Battery Life	Red LED Shows 2-3 Days of Remaining Battery Life
Switching Speed (Light-Dark)	1/20,000 Sec	1/20,000 Sec
Delay Speed (Dark-Light)	0.10-1.0 Sec	0.10-1.0 Sec
On/Off Control	Automatic	Automatic
Magnifying Lens Holder	Yes	Yes
Weight	595g	737g
Warranty	3 Years (Auto-Darkening Lens Only)	3 Years (Auto-Darkening Lens Only)

*X-Mode eliminates sunlight interference, intermittent sensing (pipe), low Amperage lens openings (TIG) and obstructed sensors.

Titanium Series

Part No: Titanium 9400 - 256176, Titanium 9400i - 256177



PARTS AND ACCESSORIES			
TITANIUM 9400	PART NUMBER	TITANIUM 9400i	PART NUMBER
Front Lens Cover (5 Pk)	216326P	Lens Holder, Front	241977
Lens Holder	241977	Lens Filter - With Cable	256360
Lens Filter	256359	Front Lens Cover (5 Pk)	216326P
Inside Lens Cover	216327P	Inside Lens Cover	216327P
Lens Holder, Front	243396	Battery Tray (Left & Right)	216339
Battery Tray (Left & Right)	216339	Replacement Lithium Battery (x2)	217043
Replacement Lithium Battery (x2)	217043	Lens - Grinding Shield	245818
Ratchet Headgear Assembly	256174	Ratchet Headgear Assembly	256174
Sweatband, Towelling (5 Pk)	770299	Sweatband, Towelling (5 Pk)	770299
Sweatband, Foam	770249	Sweatband, Foam	770249
Adjustment Angle/Stop Kit	256178	Adjustment Angle/Stop Kit	256178
Helmet Carry Bag with Miller Logo	770250	Helmet Carry Bag with Miller Logo	770250
Magnifying Lens		Magnifying Lens	
1.5 Magnification	212238P	1.5 Magnification	212238P
2.0 Magnification	212240P	2.0 Magnification	212240P
2.5 Magnification	212242P	2.5 Magnification	212242P

DIGITAL LENS TECHNOLOGY (with exclusive Infotrack™ technology)

WELD	Suits MIG, Stick, TIG, Flux Cored and Pulse welding processes. Shades 9-13.
CUT	Suits Plasma, Laser, Gas welding and cutting applications. Shades 5-9.
GRIND	Suits weld preparation and clean-up. Fixed shade 4.
X-MODE	Electromagnetic arc sensing technology eliminates sunlight interference, intermittent sensing (pipe), low Amperage lens openings (TIG) & obstructed sensors. Shades 9-13.

STANDARDS

- AS/NZS 1338.1 (Auto-Darkening)
- AS/NZS 1337.1 B (High Impact)
- ANSI Z87.1-2003 (High Impact)
- DIN/TUV/CSA



WELDERS OF OZ

THE WELDERS OF OZ AREN'T YOUR AVERAGE FABRICATORS OR BOILERMAKERS, THESE GUYS ARE THE BEST OF THE BEST.

SCOTT, DRIVER AND FABRICATOR
GARRY ROGERS MOTORSPORT

More info >
welding.com.au/weldersofoz



Vortex PAPER System

Part No: Black - 236001, Inferno - 236002

Powered Air Purifying Respirator.

OFFERS RESPIRATORY PROTECTION WHEN WELDING, GOUGING OR CUTTING.



BLACK



INFERNO

AUSTRALIAN STANDARDS

AUSTRALIAN STANDARDS

Tested in Australia, the lens and helmet comply with Australian Standards AS/NZS 1338.1 (Auto-Darkening) and AS/NZS 1337.1 B (High Impact).

DUAL AIR SPEEDS

Allows the user to adjust the air volume for a variety of working conditions - 160 and 200 litres/minute.

LIGHTWEIGHT LITHIUM ION BATTERY

Delivers 8 hours of operation on low setting and 6 hours on high setting. No memory retention from frequent charging. 3 hours to charge.

LIGHTWEIGHT BLOWER UNIT DESIGN

For operator comfort.

AUDIBLE AND VIBRATING ALARMS

Notify the operator of blocked filters or air blockages.

BACK HARNESS

Evenly distributes the weight of the unit over the entire upper body, keeping operator fatigue to a minimum when welding for long periods.

TWIST LOCK HOSE CONNECTION DESIGN

Eliminates air leaks and makes connecting and disconnecting quick and easy.

HOSE COVER

Protects from sparks and abrasion for extended life.

LED BATTERY METER

Allows the operator to keep track of remaining power.



FLOW METER

Allows the operator to check air volume output. This ensures the life of every filter is maximised.

MILLER'S DIGITAL ELITE AUTO-DARKENING LENS

Combined with Miller's Digital Elite™ for maximum performance - weld, cut and grind.

REPLACEABLE FILTER CARTRIDGE

OPTIONAL MAGNIFYING LENS AVAILABLE

REINFORCED HEAD SEAL

For durability. Fully washable.

TOOL BAG

Holds PAPR and other welding accessories.

INDUSTRIAL APPLICATIONS

- > Manufacturing.
- > Fabrication.
- > Stainless Steel.
- > Flux cored.

DIGITAL LENS TECHNOLOGY	
WELD	Suits MIG, Stick, TIG, Flux Cored and Pulse welding processes. Shades 9-13.
CUT	Suits Plasma, Laser, Gas welding and cutting applications. Shades 5-9.
GRIND	Suits weld preparation and clean-up. Fixed shade 4.
X-MODE	Electromagnetic arc sensing technology eliminates sunlight interference, intermittent sensing (pipe), low Amperage lens openings (TIG) & obstructed sensors. Shades 9-13.

PARTS AND ACCESSORIES	
Battery Charger	236010
Replacement Battery	236011
Replacement Hose	236012
Replacement Head Seal	236013
Replacement Filter Cover	236014
Pre-Filter (Pack 10)	236015
Replacement Particle Filter	236020
Replacement Belt	236030
Replacement Back Harness	236031
Tool Bag	236099

MILLER HELMET STANDARDS
AS/NZS 1338.1 (Auto-Darkening)
AS/NZS 1337.1 B (High Impact)
ANSI Z87.1-2003 (High Impact)
DIN/TUV/CSA

VORTEX PAPR STANDARDS
AS/NZS 1716:2003 PAPR-P2

COMES COMPLETE WITH

- > Compact Blower Unit.
- > Miller Digital Elite™ Helmet with Head Seal.
- > Particle Filter.
- > Belt & Back Harness.
- > Battery.
- > Battery Charger.
- > Air Flow Meter.
- > Tool Bag.

The Vortex complies with AS/NZS 1716:2003 PAPR-P2. WIA will not take responsibility for respiratory protective equipment that is chosen incorrectly. Some welding environments may contain dangerous levels of poisonous gases that are not suitably filtered by a particle filter. Vortex is not suitable for environments that contain poisonous gases or have an oxygen deficiency. It is the purchasers' responsibility to ensure their workplace is tested adequately for fume hazards and adequate extraction and ventilation is used in confined space applications.

Accessories



Water Coolers

Coolmate 3

Part No: MR043007012 [115 Volt]

Part No: MR043008012 [230 Volt]

COOLMATE 3 (115 VAC, 50/60 HZ)

For use with water-cooled torches rated up to 600 Amps. Runs on 115 VAC. Unique paddle-wheel indicator, external filter and easy-fill spout. 11 litre capacity.

COOLMATE 3 (230 VAC, 50/60 HZ)

For use with water-cooled torches rated up to 600 Amps. Runs on 230 VAC. Unique paddle-wheel indicator, external filter and easy-fill spout. 11 litre capacity.



Coolmate 3.5

Part No: MR300245

Designed to integrate with the Dynasty and Maxstar 350 and 700 power sources. For use with water-cooled torches rated up to 600 Amps. 13 litre capacity.



Coolmate 4

Part No: MR042288015

For use with water-cooled torches rated up to 600 Amps. Runs on 115 VAC. The best performer in its class. Tough moulded polyethylene case with carrying handle. 15 litre capacity.



Drive Rollers & Inlet Guides

To suit S-74S & Pipeworx Dual Feeder



SIZE (mm)	PART NO.
0.9mm 'V' groove	MR151026
1.2mm 'V' groove	MR151027
1.6mm 'V' groove	MR151029
1.2mm knurled 'V' groove	MR151053
1.6mm knurled 'V' groove	MR151055

SIZE (mm)	PART NO.
2.0mm knurled 'V' groove	MR151057
2.4mm knurled 'V' groove	MR151058
2.8mm knurled 'V' groove	MR151059
1.2mm 'U' groove	MR151037

Each kit contains 4 Drive Rollers, Inlet Guide, Intermediate Guide and Antiwear Guide.



Drive Rollers & Inlet Guides

DRIVE ROLLERS

To suit W19, W37, 22A, S-22A, S-32S & Suitcase 12VS



SIZE (mm)	PART NO.
0.6 'V' groove	MR087131
0.8 'V' groove	MR079594
0.9 'V' groove	MR079595
0.9 / 1.2 'V' groove	MR190300
1.2 'V' groove	MR079596
1.6 'V' groove	MR079598
0.9 'U' groove	MR044749
1.2 'U' groove	MR079599
1.6 'U' groove	MR079601
0.9 knurled 'V' groove	MR079606
1.2 knurled 'V' groove	MR079607
1.6 knurled 'V' groove	MR079609
2.0 knurled 'V' groove	MR079610
1.2 cogged 'U' groove	MR083318
1.6 cogged 'U' groove	MR079614

*Each drive roll kit includes top & bottom drive rollers & wire guide.

NYLON INLET GUIDES

For Miller 2RD wirefeeders

SIZE (mm)	PART NO.
1.2 nylon wire guide for aluminium	MR151203
1.6mm nylon wire guide for aluminium	MR151205

DRIVE ROLLERS

To suit W14, W17, W21 & W35 Wirefeeder



SIZE (mm)	PART NO.
40 O.D. 12 I.D.	
0.8 'V' groove	W2-21
0.9 / 1.2 'V' groove	W2-22
Flat upper roller	W2-20
0.9 / 1.2 'U' groove, chromed	W2-48
1.2 / 1.6 'U' groove, chromed	W2-50
Flat upper roller, chromed	W2-49
1.2 knurled	W2-51
1.6 / 2.0 knurled	W2-24

INLET GUIDES

SIZE (mm)	PART NO.
0.8 / 1.2 brass	W2-44/12-1
1.6 / 2.0 brass	W2-44/12-2

DRIVE ROLLERS

To suit W32, W52, W53, W55, CP42, CP44-3, CP102, CP103, CP104, CP105, CP106, CP109, CP110, CP111, CP112, CP113-1, CP115, CP116, CP120-1, CP121-0, CP122-1 & CP131



SIZE (mm)	PART NO.
0.6 / 0.8	W26-0/8
0.8 / 1.0	W26-1/8
0.9 / 1.2	W26-5/8
0.9 / 1.2 knurled	W26-9/8
1.2 / 1.6	W26-4/8
1.0 / 1.2 aluminium	W26-3/8
1.0 / 1.2 knurled	W26-7/8
1.2 / 1.6 knurled	W26-6/8
0.8 / 0.9 'V' groove	W26-8/8

INLET GUIDES

SIZE (mm)	PART NO.
2.0 I.D. brass	W26-0/13

DRIVE ROLLERS

To suit W64, W60 & W61 Wirefeeders (37mm dia) CP124, CP125, CP126, CP127, CP130, CP132, CP133, CP134 & CP135



SIZE (mm)	PART NO.
0.6 / 0.8 'V' groove	WF026
0.9 / 1.2 'V' groove	WF027
1.2 / 1.6 'V' groove	WF028
1.0 / 1.2 aluminium	WF029
0.9 / 1.2 knurled	WF030
1.2 / 1.6 knurled	WF031

DRIVE ROLLERS

To suit W41, W56, CP118, CP119, CP44-4, CP113-3, CP114 & CP120-3



SIZE (mm)	PART NO.
0.6 / 0.8 'V' groove	W51-0/5
0.8 / 1.0 'V' groove	W51-0/4
0.9 / 1.2 'V' groove	W51-0/2
1.2 / 1.6 knurled	W51-0/1
1.6 / 2.0 knurled	W51-0/7
0.9 / 1.2 aluminium	W51-0/3

Remote Controls

Remote Hand Control

Part No: MR300430 [Includes 14-Pin Receiver]

NO CORDS – IMPROVES SAFETY AND REDUCES MAINTENANCE TIME

IMPROVES PRODUCTIVITY

Allows parameter adjustments up to 91 metres away from welder without returning to the machine or calling for assistance.

SMART™ TOUCH BUTTONS

Increases or decreases machine parameters in one or five percent increments, for quick and accurate adjustments.

EASY TO INSTALL RECEIVER

Plugs directly into the 14-pin receptacle of Miller machines.

EXTENDS WELDING RANGE TO 91M

IMPROVES WELD QUALITY WITH PRECISE OPERATOR CONTROL

DIGITAL METER DISPLAY

EASY TO USE

LONG BATTERY LIFE

1 YEAR WARRANTY



Remote Foot Control

Part No: MR300429 [Includes 14-Pin Receiver]

NO CORDS – IMPROVES SAFETY

Eliminates control cord and reduces potential trip hazard.

IMPROVES PRODUCTIVITY & MANOEUVRABILITY

Eliminates cord tangles, reduces clean up time and work area cord clutter.

EASILY PROGRAMMABLE

Control can be quickly and easily paired with any other Miller 14-pin wireless receiver. (Control is pre-programmed when purchased with the receiver).

MULTIPLE FREQUENCY SHARING

Allows up to 20 systems to operate in a 27.4m radius with accuracy and precision - and without delay or system interference.

IMPROVES RELIABILITY

Eliminates control cord failure.

EXTENDS WELDING RANGE TO 27.4M

IMPROVES WELD QUALITY WITH PRECISE OPERATOR CONTROL

AUTO ON TO MAXIMISE BATTERY LIFE UP TO 250 HOURS

1 YEAR WARRANTY





MIG Gun & Consumables

**FOR QUALITY
WELDS & INCREASED
PRODUCTIVITY.**



Miller MIG Guns



MIG Guns

MILLER SELF SHIELDED GUN (MILLER DIRECT CONNECT)

The Ironmate™ Guns (350amp, 4.6m) are for feeding self-shielded (gasless) flux cored wires. They are an ideal match for Miller Suitcase® wirefeeders. MR195729



MILLER PUSH PULL MIG GUN (SUITS MILLER MPA SERIES WIRE FEEDERS ONLY)

XR Aluma Pro Plus Gun, 7.6m - This easy-to-use and easy-to-maintain gooseneck-style MIG gun is designed for push-pull wire feed systems. Available in air-cooled. Trigger hold feature reduces operator fatigue. Gun design allows for better access into tight spots. MR300001001



Note: Requires kit MR230669 to accept standard Bernard Centrefire consumables.

Bernard™ MIG Guns



The Bernard™ Difference



Bernard™ MIG guns have been designed and manufactured to suit the most demanding industrial welding applications. Investing in a high quality MIG gun means less downtime for maintenance, component changeovers and more consistent welds – resulting in lower costs and better productivity. The Bernard™ brand is trusted by customers to deliver on ease of use, durability, performance and quality.

BERNARD™ Q150 GUN (180 AMP @ 35% DUTY) FITTED WITH CENTERFIRE COMPONENTS

Gun with fixed short 45 deg. neck, 3m cable, 0.9 tip, Euro	BEQ1510A08CE
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BERNARD™ Q200 GUN (240 AMP @ 35% DUTY) FITTED WITH CENTERFIRE COMPONENTS

Gun with fixed short 45 deg. neck, 3.6m cable, 0.9 tip, Euro	BEQ2012A08CE
--	--------------

BERNARD™ Q300 GUN (390 AMP @ 35% DUTY) FITTED WITH CENTERFIRE COMPONENTS

Gun with rotatable short 45 deg. neck, 3m cable, 0.9 tip, Euro	BEQ3010AB8CE
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Gun with fixed medium 45 deg. neck, 3.6m cable, 0.9 tip, Euro	BEQ3012AR8CE
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Gun with rotatable short 45 deg. neck, 4.6m cable, 0.9 tip, Bernard	BEQ3015AB8CB
---	--------------

Gun with rotatable short 45 deg. neck, 4.6m cable, 0.9 tip, Euro	BEQ3015AB8CE
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BERNARD™ Q400 GUN (440 AMP @ 35% DUTY) FITTED WITH CENTERFIRE COMPONENTS

Gun with rotatable long 45 deg. neck, 3m cable, 0.9 tip, Bernard	BEQ4010AH8EB
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Gun with fixed medium 45 deg. neck, 3m cable, 0.9 tip, Euro	BEQ4012AR8EE
---	--------------

Gun with fixed medium 45 deg. neck, 3.6m cable, 1.2 tip, Miller	BEQ4012AR8EM
---	--------------

Gun with rotatable long 45 deg. neck, 4.6m cable, 1.2 tip, Bernard	BEQ4015AH8EB
--	--------------

Gun with rotatable long 45 deg. neck, 4.6m cable, 1.2 tip, Euro	BEQ4015AR8EE
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Gun with rotatable long 45 deg. neck, 4.6m cable, 1.2 tip, Miller	BEQ4015AH8EM
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BERNARD 250 & 350 PIPEWORX GUNS – FITTED WITH CENTREFIRE COMPONENTS

Bernard Pipewox 250-15, 4.6m cable, 1.2mm tip, Miller (recommended for root pass welding only)	MR195399
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Bernard Pipewox 350-15, 4.6m cable, 1.2mm tip, Miller	MR195400
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Consumables & Replacement Parts

Centerfire™ Consumables



A CLEAR CUT DIFFERENCE

Less expensive consumables don't necessarily add up to cost savings.

It's important to choose longer lasting consumables. They can make the difference between repeated consumable replacement and rework, or more arc time and a better bottom line.

Centerfire™ contact tips, nozzles and diffusers are easy-to-use and high performing - they provide better arc starts, less spatter and more consistent welds - and also last up to three times longer than competitor brands.

- > No tools required to replace tip or nozzle.
- > "Drop-In" tip with no threads means quick change after burnback, reducing down time.
- > Large diameter tip base and tapered seat provides better electrical conductivity and heat transfer.

- > Spatter shield within nozzle protects diffuser and gives smoother, less turbulent gas flow.
- > Solid, concentric relationship between tip and nozzle keeps tip centered even after hard use... and abuse.
- > Threaded nozzle holds tip fixed at 1/4" or 1/8" recess, flush, or 1/8" stick out.

- > Compatible with all standard air-cooled Bernard™ Q-Gun and S-Gun series.
- > Complete family of tips and nozzles is available to meet most of your welding needs.



Contact Tips

SHORT CONTACT TIPS - STANDARD - 7400 SERIES (ONLY AVAILABLE IN PACKETS OF 10)

0.6mm (0.024") (packet of 10 tips)	BE7497
0.8mm (0.030") (packet of 10 tips)	BE7488
0.9mm (0.035") (packet of 10 tips)	BE7489
1.0mm (0.039") (packet of 10 tips)	BE7496
1.2mm (0.045") (packet of 10 tips)	BE7490
1.3mm (0.051") (packet of 10 tips)	BE7498
1.6mm (0.063") (packet of 10 tips)	BE7491
2.0mm (0.078") (packet of 10 tips)	BE7492
2.4mm (0.094") (packet of 10 tips)	BE7493

LONG CONTACT TIPS - STANDARD - 1500 SERIES (ONLY AVAILABLE IN PACKETS OF 10)

0.9mm (0.035") (packet of 10 tips)	BE1589
1.0mm (0.040") (packet of 10 tips)	BE1596
1.2mm (0.045") (packet of 10 tips)	BE1590
1.4mm (0.052") (packet of 10 tips)	BE1598
1.6mm (0.062") (packet of 10 tips)	BE1591

CONTACT TIPS - CENTERFIRE™ - STANDARD (ONLY AVAILABLE IN PACKETS OF 10)

0.8mm (0.030") standard tip (packet of 10 tips)	BET-030
0.9mm (0.035") standard tip (packet of 10 tips)	BET-035
1.0mm (0.039") standard tip (packet of 10 tips)	BET-039
1.2mm (0.045") standard tip (packet of 10 tips)	BET-045
1.4mm (0.052") standard tip (packet of 10 tips)	BET-052
1.6mm (0.0625") standard tip (packet of 10 tips)	BET-062
2.0mm (0.078") standard tip (packet of 10 tips)	BET-078
2.4mm (0.094") standard tip (packet of 10 tips)	BET-094

CONTACT TIPS - CENTERFIRE™ - TAPERED (ONLY AVAILABLE IN PACKETS OF 10)

0.9mm (0.035") tapered tip (packet of 10 tips)	BETT-035
1.2mm (0.045") tapered tip (packet of 10 tips)	BETT-045
1.4mm (0.052") tapered tip (packet of 10 tips)	BETT-052
1.6mm (0.062") tapered tip (packet of 10 tips)	BETT-062

PIPELINE SERIES PARTS - STANDARD (ONLY AVAILABLE IN PACKETS OF 10)

Tip Pipeline 0.9mm - Standard (packet of 10 tips)	BE4281
Tip Pipeline 1.2mm - Standard (packet of 10 tips)	BE4282
Tip Pipeline 0.9mm - Long (packet of 10 tips)	BE4381A
Tip Pipeline 1.2mm - Long (packet of 10 tips)	BE4382A
Nozzle Brass Pipeline & Insulator - Standard	BE4295
Nozzle Brass Pipeline & Insulator - Long	BE4395A



Consumables & Replacement Parts



Nozzles

BERNARD NOZZLES - STANDARD SERIES	
Nozzle Copper Water Cooled	BE1101QD
Nozzle Brass w/insulator	BE4391
Nozzle Brass Tapered w/insulator	BE4392
Nozzle Copper w/insulator	BE4393
Nozzle Copper Tapered w/insulator	BE4394
Nozzle Brass w/insulator 400A	BE4491
Nozzle Brass Tapered w/insulator 400A	BE4492
Nozzle Copper w/insulator 400/500A	BE4591
Nozzle Copper Tapered w/insulator	BE4592
BERNARD NOZZLES - CENTERFIRE SERIES	
Nozzle Small Brass Tapered 3/8" Diameter - Flush	BENST-3800B
Nozzle Small Brass Tapered 3/8" Diameter - 1/8 Recess	BENST-3818B
Nozzle Small Brass 1/2" Diameter - Flush	BENS-1200B
Nozzle Small Brass 1/2" Diameter - 1/8 Recess	BENS-1218B
Nozzle Small Copper 1/2" Diameter - 1/8 Recess	BENS-1218C
Nozzle Small Brass 5/8" Diameter - Flush	BENS-5800B
Nozzle Small Brass 5/8" Diameter - 1/8 Recess	BENS-5818B
Nozzle Small Copper 5/8" Diameter - 1/8 Recess	BENS-5818C
Nozzle Copper 5/8" Diameter - Flush	BEN-5800C
Nozzle Brass 5/8" Diameter - Recess	BEN-5814B
Nozzle Copper 5/8" Diameter - 1/4 Recess	BEN-5814C
Nozzle Brass 5/8" Diameter - 1/8 Recess	BEN-5818B
Nozzle Copper 5/8" Diameter - 1/8 Recess	BEN-5818C
Nozzle Copper 3/4" Diameter - Flush	BEN-3400C
Nozzle Brass 3/4" Diameter - 1/4 Recess	BEN-3414B
Nozzle Copper 3/4" Diameter - 1/4 Recess	BEN-3414C
Nozzle Brass 3/4" Diameter - 1/8 Recess	BEN-3418B
Nozzle Copper 3/8" Diameter Flush Tapered	BENT-3800C
BERNARD NOZZLES - NEW HEAVY DUTY CENTERFIRE SERIES	
Nozzle Cone 3/4" Diameter - 1/4 Recess	BEHDN-3414
Nozzle Cone 3/4" Diameter - 1/8 Recess	BEHDN-3418
Nozzle Cone 5/8" Diameter - 1/4 Recess	BEHDN-5814
Nozzle Cone 5/8" Diameter - 1/8 Recess	BEHDN-5818
Nozzle Body	BEN-HDC



Head Assemblies & Diffusers

HEAD ASSEMBLIES (DIFFUSERS)

Head 200/300A for short tip	BE4335
Head 200/300A for short tip Tweco to Bernard adaptor	BE4335T
Head 200/300A for long tip	BE4235
Head 350/400/500A for short tip	BE4435
Head 350/400/500A for short tip - Tweco to Bernard adaptor	BE4435T
Head 600A for long tip	BE4635
Head 600A for long tip - with liner guide	BE4635-116

DIFFUSERS (HEADS) FOR CENTERFIRE SERIES

Diffuser, small	BEDS-1
Diffuser, small conversion, Tweco 4, Tregaskiss	BEDS-1T
Diffuser, large	BED-1
Diffuser, large conversion, Tweco 4, Tregaskiss	BED-1T
Diffuser, large conversion, Tweco 5	BED-1T5



Liners

LINERS

AMPS		
200 - 400 A	Liner Steel 0.9-1.2mm	BE43115
	Liner Nylon 0.9-1.2mm	BE43115X
	Liner Steel with Nylon Core 0.9-1.2mm	BE1920218
300 - 400 A	Liner Steel 2.0mm	BE1920356
300 - 600 A	Liner Steel 1.2-1.6mm - 4.6m	BE44215
	Liner Nylon 1.2-1.6mm - 4.6m	BE44215N
400 - 600 A	Liner Steel 0.9-1.2mm - 4.6m	BE44115
500 - 600 A	Liner Steel 2.0mm - 4.6m	BE44315
	Liner Steel 2.4mm - 4.6m	BE45415
	Liner Steel 2.8mm - 4.6m	BE45615
	Liner Steel 3.2mm - 4.6m	BE46715
	Jump Liner 1.6mm	BEQJL-116
	Jump Liner 0.9/1.2mm	BEQJL-3545

ALUMINIUM LINER GUIDES

Liner guide suit W17 & W35 Feeders, 0.9 - 1.2 mm	BE2760002
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Consumables & Replacement Parts

Adaptors

ADAPTORS FOR CENTERFIRE SERIES	
Adaptor, Tweco 180/200 & Magnum 250 to Centerfire	BE1380005
Adaptor, Tweco Eliminator 250/350 to Centerfire	BE1380012
Adaptor, Tweco Eliminator 450/600 to Centerfire	BE1380017
WIRE FEEDER ADAPTORS	
Gun End Conversion	
Bernard Quick Connect adaptor	BE1199
Euro adaptor	BE1199E
Miller adaptor	BE1199M
Wire Drive Conversion	
Adaptor W37/W19 wirefeeder (Miller to Euro)	MR164902
Bernard™ Quick Connect Fitting	BE4920
Miller/EZ feed adaptor	BE4995N



Kits & Assemblies

GASLESS PARTS - HEAVY DUTY CENTERFIRE SERIES

Insulator	BE7010024
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HANDLE KITS

Handle kit to suit 150A guns - horizontal split	BE1880194
Handle kit suit 200/300/350A guns	BE1780006
Handle kit suit 400/500A guns	BE4408
Handle kit to suit 200/300/400A guns (curved handle)	BE1880155

TRIGGER ASSEMBLIES

Switch assembly for 180A guns (eg. BEQ1510A07CE)	BE2620054
Trigger assembly microswitch to suit 200/300/350A guns	BE5662
Trigger assembly copper brass contacts to suit 200/300/350A guns	BE5662Y
Trigger assembly to suit 400/500A guns	BE4422
Locking trigger	BE5662L

CONE NUT REPAIR KITS

Cone nut suit 300/350A (wirefeeder end)	BE1983
Cone nut suit 400A (wirefeeder end)	BE1984
Plastic nut cover, slip on	BE1840057
Cone nut	BE4305



Consumables & Replacement Parts

Caps

CAPS	
Cap insulator, 300A	BE4323
Cap insulator, 400A	BE4423
Cap insulator, 400A Centerfire	BE10012



Strain Relief

STRAIN RELIEF	
Strain relief (suits old style guns)	BE1880074
Suits Q200/300 guns	BE2520033
Suits Q400 guns	BE2520041
Strain relief suit 150A guns (suits new euro)	BE2520047
Strain relief rigid universal	BE2520069



O'Rings

GENUINE BERNARD O-RING	
O'ring for 4235 & 4335 head	BE7126
O'ring for 4435 & 4635 head	BE7127
O'ring (small) for Euro end	BE9165
O'ring (large) for Euro end	BE4421
O'ring (gas pin QD)	BE4907
O'ring Miller end	MR079974



Miscellaneous Accessories

GUN ACCESSORIES (MISCELLANEOUS)	
Hang up hook kit	BE1790002
Plastic nut cover, slip on	BE1840057
Bakelite body QD cable end	BE4901
Feeder tip 1.3/3.2mm (Miller ended gun)	BE4474
Feeder tip 0.6/1.2mm (min buy 10) (Miller ended gun)	BE4477
Guide tube 0.8-1.3mm 214mm	BE478
Insulator hex nut	BE4780

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