designed
developed &
quality controlled
in germany

VECTOR
WELDING
TECHNOLOGY
GmbH

Ihr Partner für Schweißtechnik

VECTOR

Your Partner For Welding Technology

PROFESSIONAL IN WELDING

CATALOGUE2017-2018

COMPANY PHILOSOHY

Enterprise vision:

- Nummer 1 in der Technologie
- Nummer 1 in den Preisen
- Nummer 1 im Service
- Nummer 1 in der Umweltfreundlichkeit

The spirit of enterprise:

Better, faster, stronger. More customers' trust !

COMPANY PROFILE

VECTOR welding technology Co., Ltd. is a high-tech welding company specializing in design, manufacture and commercialization. With its advanced technology ,exquisite manufacturing technique, precious detecting equipment and continuous innovation spirit, the company devotes itself to inverter welder industry .The company has long been focusing on the accumulation of the reserves of talent and technical strength,whose products have been widely used around the world and recognized by customers .The company's leading products include portable DC ARC welding machine ,TIG(single tig,dual-use tig with mma,pulse, square wave)welder,multi-fuction welder(tig,mma,plasma cut),Mig welder plasma cutter total six series with more than 100 models of machines,which can be widely used in oil pipelines, chemical, automotive, shipbuilding, boiler, electric power construction, nuclear power, aerospace, military, industrial installation, bridge construction and other industries.

Motivation, Competence and best quality at best prices

Attention to detail is very important for us. Therefore, it is no coincidence that more than 30,000 customers throughout Europe trust our high product standards and the best possible service

Do today – what others are thinking of tomorrow

Who wants to ensure in the future global competitive advantages, has to identify trends early and help shape it. Enthusiastic customers confirm our success, that we offer high-quality, customized products and solutions. Our corporate strategy is successful on the international markets. Our offices and partners are located in Germany, Britain, Sweden, Switzerland,Finland,Hungary,Romania, Czech Republic,Spain, Bulgaria, Latvia, Slovenia, Czech Republic, Russia, Brazil, Canada.

Perfect Technology

Innovation, engagement and competence make it possible, that we are able to offer the best products to the best prices. Easily and directly - we meet the highest expectations of industry and consumer

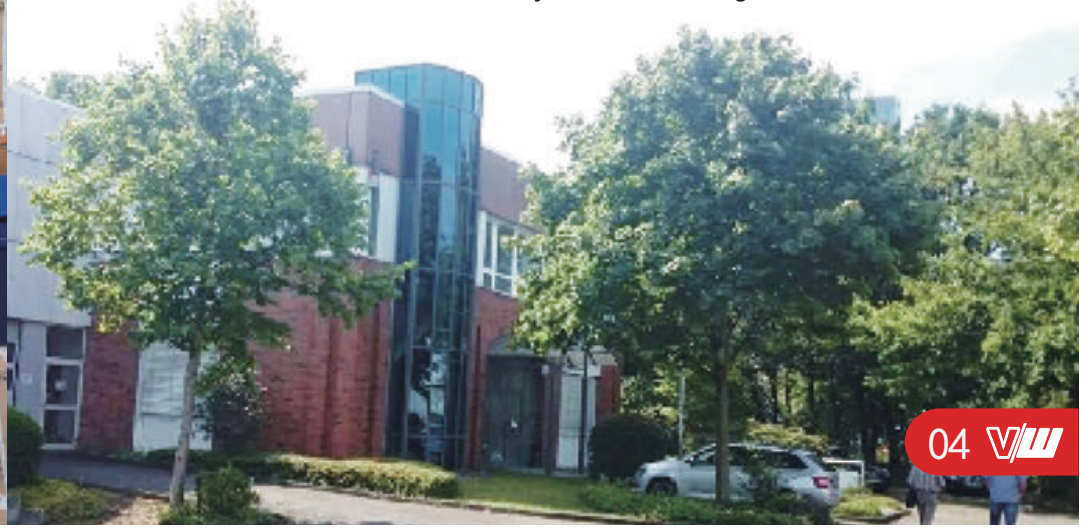
Highly motivated employees - one reason for our success

To further confirm the strong position the „vector" in the long term and to e nsure optimal care of our customers, our employees are constantly trained and brought on the latest technical developments. They are specialists in their field, know their tasks, bring in new ideas, thus confirming our claim to a top position in the international markets daily.

VECTOR brand has become a symbol of stable qulity, good performance,competitive price and good after-sales service.Providing excellent products and perfect customer service is our relentless pursuit.

Service is a top priority. Each customer has his own personal account manager, who support the customer in the execution of his appointment or assist him for questions and advice. Take advantage from our services.

Visit us - We invite you to take a welding test



OUR PRODUCT SERIES

VW brand machines

VW-SERIES

VW240 VW340

EW-SERIES

EW160 EW200 EW250 EW400

OUR PRODUCT SERIES

VW brand machines

CW-SERIES

CW50 CW60 CW120 CW160

TW-SERIES

TW220 TW230 TW330 TW430

OUR PRODUCT SERIES

VW brand machines

OW-SERIES

OW230 OW240 OW250

RW-SERIES

RW160 RW230

OUR PRODUCT SERIES

VW brand machines

MIG350/500

MIG350 MIG500

VW-SERIES

VW240	1 1-14
VW340	1 1-14

VECTOR
WELDING
TECHNOLOGY
GmbH

PROFESSIONAL IN WELDING

VW-SERIES

VW240/VW340

designed
developed &
quality controlled
in germany

Quick SPecs

Processes:
AC TIG DC TIG ARC(Stick)
Applications:
Construction industry
Metal workshops
Agriculture
Repair and maintenance
Input Power:
VW240: 230V, 1-Phase
VW340: 400V, 3-Phase
Amperage Range:
VW240: TIG : 10A-200A
ARC : 10A-200A
VW340 TIG : 10A-315A
ARC : 10A-280A

Rated Output at 40 ° C (104°F):
VW240 TIG: 200A@60% Duty Cycle
155A@100% Duty Cycle
ARC: 200A @40% Duty Cycle
155A @100% Duty Cycle
VW340 TIG: 300A@60% Duty Cycle
244A@100% Duty Cycle
ARC: 280A @60% Duty Cycle
217A @100% Duty Cycle
Weight : VW240/19kg VW340/28kg

TOP Features:

TIG
- The band has a repeatable electronic HF high frequency arc.
- Raise the arc welding, do not use HF high frequency.
- 2T/4T Mode of operation.
- Slope/decay slope can be adjusted.
- The welder pulse parameter is accurate.There are 9 sets of welding parameters available.
- High frequency and stroke arc function can be chosen.

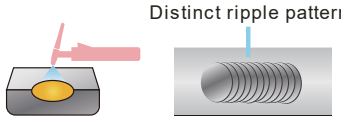
ARC
- Hot start current and hot start time adjustable.
- Adjustable arc force.

PULSED TIG CONTROLS

The Pulsed TIG function switches the amperage from ahigh(peak) to a low (background) at a set rate(PPS).

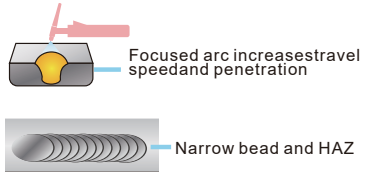
Pulsingcan reduce heat input by lowering the average amperage,increasing control of the weld puddle, penetration anddistortion. Thefollowing parameters can be adjusted fordesired results:

Low-Speed Pulse



1 to 10 pulses per second(PPS) will produce a distinct ripplepattern in the weld bead. Can be used to time Iler addition,reduce distortionand improve control.

High-Speed Pulse



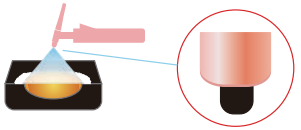
100 pulses per second(PPS) and higher helps to focus the arcfor increased stability, penetration and travel speed. Increasedpuddle agitation improves weld microstructure.

STANDARD SQUARE WAVE

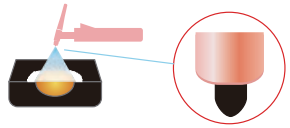
Fast freezing puddle, deeppenetration and ast travel speeds.

AC WAVESHAPE CONTROLS

AC Frequency control



Wider bead, good penetration ideal for buil dup work

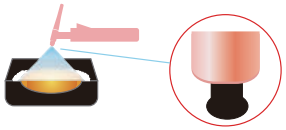


Narrower bead for fillet welds andautomated applications

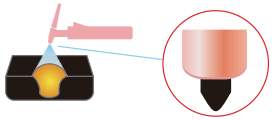
Controls the width of the arc cone.Increasing the AC Frequencyprovides a more focused arc with increased directional control.

Note: Decreasing the AC Frequency softens the arc and broadens the weldpuddle for a wider weld bead.

AC Balance Control



Wider bead, good penetration ideal for buildup work



Narrower bead, good penetration ideal for buildup work

Controls arc cleaning action. Adjusting the % EN of the AC wavecontrols the width of the etching zone surrounding the weld.

Note: Set the AC Balance control for adequate arc cleaning action at the sides and in front of the weld puddle. AC Balance should be ne tuned according to how heavy or thick the oxides are.

VW-SERIES

VW240

Technical specifications

Item No	VW240	
	TIG	ARC
Rated Input Voltage	1x230 V (±15 %)	1x230 V (±15 %)
Load Power Capacity	4.6KVA	7.1KVA
Rated Duty Cycle	40 °C	40 °C
60%	200A	200A
100%	155A	155A
Welding Current/Voltage Range	10 A -200 A	10 A -200 A
Open Circuit Voltage	70-80V	70-80V
cos φ	0.93	0.93
Efficiency	85%	85%
Empf. Generatorleistung	7.5kVA	9.9kVA
Dimension (LxWxH)	510X275X510mm	
Weight (KG)	19KG	
Schutzart	IP 23	
standard	IEC 60974-1	

VW340

Technical specifications

Item No	VW340	
	TIG	ARC
Rated Input Voltage	3x400 V (±15 %)	3x400 V (±15 %)
Load Power Capacity	9KVA	11KVA
Rated Duty Cycle	40 °C	40 °C
60%	300A	280A
100%	244A	217A
Welding Current/Voltage Range	10 A -315 A	10 A -280 A
Open Circuit Voltage	70-80V	70-80V
cos φ	0.93	0.93
Efficiency	85%	85%
Empf. Generatorleistung	11.3kVA	13.8kVA
Dimension (LxWxH)	616X326X645mm	
Weight (KG)	28KG	
Schutzart	IP 21	
standard	IEC 60974-1	

Accessories

VW240

For Standard accessories

WP-26-Torch
4M-16mm^2

Cable
200A-16mm^2-3M

Electrode holder
200A-16mm^2-3M

Gashose
8X13.5/3M

Accessories

VW340

For Standard accessories

WP-18-Torch
4M-10mm^2

Cable
300A-16mm^2-3M

Electrode holder
300A-16mm^2-3M

Gashose
8X13.5/3M

VECTOR
WELDING
TECHNOLOGY
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PROFESSIONAL IN WELDING

EW-SERIES

EW160	1 7-20
EW200	1 7-20
EW250	1 7-20
EW400	1 7-20

EW-SERIES

EW160/EW200/ EW250/ EW400

designed
developed &
quality controlled
in germany

Quick SPecs

Processes :
ARC (Stick)
Applications :
Construction industry
Metal workshops
Agriculture
Repair and maintenance
Input Power :
EW160 ARC: 230V,1-Phase
EW200 ARC: 230V,1-Phase
EW250 ARC: 400V, 3-Phase
EW400 ARC: 400V, 3-Phase
Amperage Range:
EW160 ARC: 20A-160A
EW200 ARC: 20A-200A

EW250 ARC: 10A-250A
EW400 ARC: 30A-400A
Rated Output at 40 ° C (104°F):
EW160 ARC: 160A @60% Duty Cycle
125A @100% Duty Cycle
EW200 ARC: 200A @60% Duty Cycle
155A @100% Duty Cycle
EW250 ARC: 250A @60% Duty Cycle
194A @100% Duty Cycle
EW400 ARC: 400A @60% Duty Cycle
310A @100% Duty Cycle
Weight : EW160/10kg EW200/10kg
EW250/15kg EW400/19kg

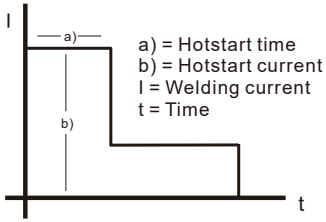
TOP Features:

ARC

- A shell made of steel plate and high strength plastic.
- The welding spatter is reduced, reducing the cleaning process after welding.
- Control the input heat, the deformation is small.
- Strong structural construction that can be used at the site.
- Antiblocking function.
- Hot start current and hot start time adjustable.
- Adjustable arc force.

HOT START

Hot Start adaptive control provides positive arc start without sticking

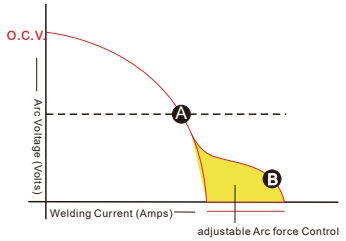


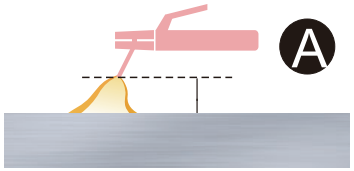
100% suitable for construction sites

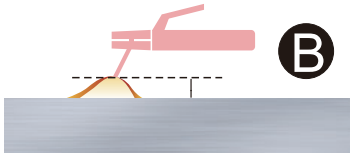
Perfect for large construction sites and very tough assembly work with mains supply leads up to 50 metres or connected directly to a generator. High tolerance to mains fluctuations ensures a perfect welding result.

Arcforce correction (welding characteristics)

Arcforce is a setting that allows you to adjustthe arc to soft smooth arc to a more aggressive digging arc.Setting high is to bump up amperage when you have a really tight arc so that you keep welding.







EW-SERIES

EW160/EW200

Technical specifications

Item No	EW160	EW200
	ARC	ARC
Rated Input Voltage	1x230 V (±15 %)	1x230 V (±15 %)
Load Power Capacity	5.3KVA	7.1KVA
Rated Duty Cycle	40 °C	40 °C
60%	160A	200A
100%	125A	155A
Welding Current/Voltage Range	20 A -160 A	20 A -200 A
Open Circuit Voltage	70-80V	70-80V
cos φ	0.93	0.93
Efficiency	85%	85%
Empf. Generatorleistung	7.5kVA	9.9kVA
Dimension (LxWxH)	400X190X380mm	400X190X380mm
Weight (KG)	10KG	10KG
Schutzart	IP 21	IP 23
standard	IEC 60974-1	IEC 60974-1

EW250/EW400

Technical specifications

Item No	EW250	EW400
	ARC	ARC
Rated Input Voltage	3 x 400 V (-40 % - +15 %)	3 x 400 V (-40 % - +15 %)
Load Power Capacity	9.5KVA	18.2KVA
Rated Duty Cycle	40 °C	40 °C
60%	250A	400A
100%	194A	310A
Welding Current/Voltage Range	10 A -250 A	30 A -400 A
Open Circuit Voltage	70-80V	70-80V
cos φ	0.93	0.93
Efficiency	85%	85%
Empf. Generatorleistung	12.8kVA	25kVA
Dimension (LxWxH)	492x217x400mm	520X265X440mm
Weight (KG)	15KG	19KG
Schutzart	IP 23	IP 23
standard	IEC 60974-1	IEC 60974-1

Accessories

EW160/EW200

For Standard accessories

Electrode holder
200A-16mm²-3M

Cable
200A-16mm²-3M

Accessories

EW250

For Standard accessories

Electrode holder
300A-25mm²-3M

Cable
300A-25mm²-3M

EW400

For Standard accessories

Electrode holder
500A-50mm²-3M

Cable
500A-50mm²-3M

VECTOR WELDING TECHNOLOGY GmbH

PROFESSIONAL IN WELDING

CW-SERIES

CW50/CW60	23-24
CW120	25-26
CW160	27-28

CW-SERIES

CW50/CW60

Professional-grade plasma metal cutting
for handheld cutting 8mm and 15mm.

designed
developed &
quality controlled
in germany

CW50

Capacity	Thickness	Cut speed
	Cutting	
Recommende	8mm	450mm/min
Severance (hand cutting)	12mm	125mm/min

*Pierce rating for handheld use or with automatic torch height control

CW60

Capacity	Thickness	Cut speed
	Cutting	
Recommende	15mm	540mm/min
	20mm	270mm/min
Severance (hand cutting)	25mm	135mm/min

*Pierce rating for handheld use or with automatic torch height control

Easy-to-use with versatile design

- Powerful design provides exceptional portability for a 8mm and 15mm rated cutting system.
- HF type or Non-HF type available:
  Starts without high-frequency so it will not interfere with or damage controls or computers.
- Pilot Arc makes it easy to use – even for frst time operators.

Rugged and reliable

- TOPWELL Certified reliability ensures performance in the most demanding environment.
- Powercool design cools internal components more effectively for long system life and improved uptime.

Finish jobs faster

- Spend less time on grinding and edge preparation due to superior cut quality.
- Finish jobs faster with cut speeds three times greater than oxyfuel on 12 mm mild steel.

Technical specifications

Item No	CW50	CW60
	CUT	CUT
Rated Input Voltage	1x230 V (±15 %)	3x400 V (±15 %)
Load Power Capacity	7.9KVA	6.3KVA
Rated Duty Cycle	40 °C	40 °C
60%	50 A	60A
100%	39 A	46A
Welding Current/Voltage Range	10A -50 A	20 A -60 A
Open Circuit Voltage	260-330V	260-330V
cos φ	0.93	0.93
Efficiency	85%	85%
Empf. Generatorleistung	9.9kVA	7.5kVA
Dimension (LxWxH)	400X150X320mm	480X180X370mm
Weight (KG)	9.1KG	17.1KG
Schutzart	IP 23	IP 23
standard	IEC 60974-1	IEC 60974-1

Accessories

CW50/CW60

For Standard accessories

AG-60-Torch
4M-6mm^2
(CW50)

P-80-Torch
4.5M-10mm^2
(CW60)

Cable
300A-10mm^2-3M

Reducing valve
AW2000

Gas hose
8X13.5/3.5M

CW-SERIES

CW120

Professional-grade plasma metal cutting for handheld cutting 30mm.

designed
developed &
quality controlled
in germany

CW120

Capacity	Thickness	Cut speed
	Cutting	
Recommende	30mm	500mm/min
	40mm	250mm/min
Severance (hand cutting)	50mm	125mm/min

*Pierce rating for handheld use or with automatic torch height control

Maximum productivity

- Finish jobs faster with cut speeds three times greater thanoxyfuel on 12 mm mild steel.
- Spend less time on grinding and edge preparation due to superior cut quality.

Low operating costs

- Reduce costs with long consumable life and more uptime.

Easy-to-use with versatile design

- Powerful design provides exceptional portability for a 30mm rated cutting system.
- HF type or Non-HF type available: Starts without high-frequency so it will not interfere with or damage controls or computers.
- Pilot Arc makes it easy to use – eve for first tim operators.

Rugged and reliable

- TOPWELL Certified reliability ensures per formance in the most demanding environment.
- Powercool design cools internal components more effectively for long system life and improved uptime.

Technical specifications

Item No	CW120
	CUT
Rated Input Voltage	3x400 V (±15 %)
Load Power Capacity	19.4KVA
Rated Duty Cycle	40 °C
60%	120A
100%	93A
Welding Current/Voltage Range	20 A -120 A
Open Circuit Voltage	260-330V
cos φ	0.93
Efficiency	85%
Empf. Generatorleistung	26.2kVA
Dimension (LxWxH)	548x276x516mm
Weight (KG)	28KG
Schutzart	IP 21
Standard	IEC 60974-1

Accessories

CW120

For Standard accessories

P-80-Torch
4.5M-10mm^2

Cable
300A-10mm^2-3M

Reducing valve
AW2000

Gas hose
8X13.5/3.5M

CW-SERIES

CW160

Professional-grade plasma metal cutting for handheld cutting 30mm

designed
developed &
quality controlled
in germany

CW160

Capacity	Thickness
	Cutting
Quality Cutting ting Thickness(1000mm/min)	30mm
Maximum Cutting Capacity	50mm

*Pierce rating for handheld use or with automatic torch height control

Maximum productivity

Finish jobs faster with cut speeds three times greater thanoxyfuel on 12 mm mild steel.
Spend less time on grinding and edge preparation due to superior cut quality.

Low operating costs

- Reduce costs with long consumable life and more uptime.

Easy-to-use with versatile design

Powerful design provides exceptional portability for a 30mm rated cutting system.
HF type or Non-HF type available: Starts without high-frequency so it will not interfere with or damage controls or computers.
Pilot Arc makes it easy to use – eve for first tim operators.

Rugged and reliable

- TOPWELL Certified reliability ensures per formance in the most demanding environment.
- Powercool design cools internal components more effectively for long system life and improved uptime.

Technical specifications

Item No	CW160
	CUT
Rated Input Voltage	3x400 V (±15 %)
Load Power Capacity	15.2KVA
Rated Duty Cycle	40 °C
60%	160A
100%	124A
Welding Current/Voltage Range	20 A -160 A
Open Circuit Voltage	260-330V
cos φ	0.93
Efficiency	85%
Empf. Generatorleistung	20kVA
Dimension (LxWxH)	635X239X575mm
Weight (KG)	55KG
Schutzart	IP 21
standard	IEC 60974-1

Accessories

CW160

For Standard accessories

LT141-Torch 5M-16mm^2

Cable 300A-16mm^2-3M

Reducing valve AW2000

Gas hose 8X13.5/3.5M

VECTOR
WELDING
TECHNOLOGY
GmbH

PROFESSIONAL IN WELDING

TW-SERIES

TW220	31-34
TW230	35-38
TW330	35-38

TW-SERIES

TW220

designed
developed &
quality controlled
in germany

Quick SPecs

Processes:
DC TIG ARC (Stick)
Applications:
Construction industry
Metal workshops
Agriculture
Repair and maintenance
Input Power:
TW220: 230V, 1-Phase

Amperage Range:
TW220 TIG: 10A-200A
ARC: 10A-200A
Rated Output at 40 ° C (104°F):
TW220 TIG : 200A @60% Duty Cycle
155A @100% Duty Cycle
ARC : 200A @60% Duty Cycle
155A @100% Duty Cycle
Weight :TW220/15kg

TOP Features:

TIG
- Air cooled TIG DC argon arc welding inverter.
- TIG argon arc welding with a repeatable electron HF high frequency arc.
- 2T/4T Mode of operation.
- It has a wide range of network pressure, which can make the machine achieve stable cutting when the net pressure fluctuates （±15%).
- Optional multiple remote control and foot control.

ARC
- Hot start current and hot start time adjustable.
- Adjustable arc force.

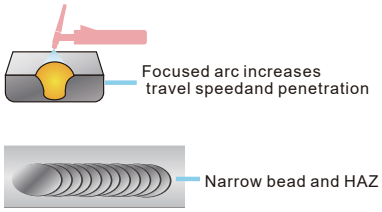
PULSED TIG CONTROLS

The Pulsed TIG function switches the amperage from ahigh(peak) to a low (background) at a set rate(PPS). Pulsingcan reduce heat input by lowering the average amperage,increasing control of the weld puddle, penetration anddistortion. Thefollowing parameters can be adjusted fordesired results:

Low-Speed Pulse

1 to 10 pulses per second(PPS) will produce a distinct ripplepattern in the weld bead. Can be used to time ller addition,reduce distortionand improve control.

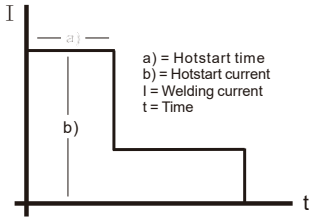
Low-Speed Pulse



100 pulses per second(PPS) and higher helps to focus the arcfor increased stability, penetration and travel speed. Increasedpuddle agitation improves weld microstructure.

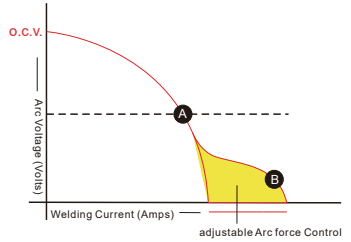
HOT START

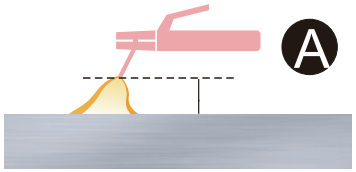
Hot Start adaptive control provides positive arc start without sticking

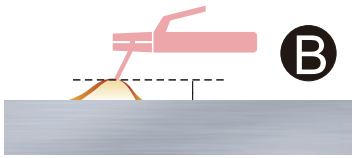


Arcforce correction (welding characteristics)

Arcforce is a setting that allows you to adjustthe arc to soft smooth arc to a more aggressive digging arc. Setting high is to bump up amperage when you have a really tight arc so that you keep welding.







TW220

Technical specifications

Item No	TW220	
	TIG	ARC
Rated Input Voltage	1x230 V (±15 %)	1x230 V (±15 %)
Load Power Capacity	4.6KVA	7.1KVA
Rated Duty Cycle	40 °C	40 °C
60%	200A	200A
100%	155A	155A
Welding Current/Voltage Range	10 A -200 A	10 A -200 A
Open Circuit Voltage	70-80V	70-80V
cos φ	0.93	0.93
Efficiency	85%	85%
Empf. Generatorleistung	7.5kVA	9.5kVA
Dimension (LxWxH)	400X190X380mm	
Weight (KG)	15KG	
Schutzart	IP 23	
standard	IEC 60974-1	

Accessories

TW220

For Standard accessories

WP- 26-Torch
4M-16mm^2

Cable
200A-16mm^2-3M

Electrode holder
200A-16mm^2-3M

Gas hose
8X13.5/3M

TW-SERIES

TW230/TW330

designed
developed &
quality controlled
in germany

Quick SPecs

Processes:
DC TIG ARC (Stick)
Applications:
Construction industry
Metal workshops
Agriculture
Repair and maintenance
Input Power:
TW230: 230V, 1-Phase
TW330: 400V, 3-Phase
Amperage Range:
TW230 TIG: 10A-200A
ARC: 10A-200A

TW330 TIG: 10A-300A
ARC: 10A-250A
Rated Output at 40 ° C (104°F):
TW230 TIG: 200A @60% Duty Cycle
155A @100% Duty Cycle
ARC: 200A @60% Duty Cycle
155A @100% Duty Cycle
TW330 TIG: 300A @60% Duty Cycle
232A @100% Duty Cycle
ARC: 300A @60% Duty Cycle
232A @100% Duty Cycle
Weight :TW230/15kg TW330/18.6kg

TOP Features:

- It has pulse function and pulse frequency adjustment function.
- The intuitive interface of operation reduces operation elements effectively and focuses on important functions.
- 2T/4T Mode of operation.
- The welding parameters of arc welding machine can be adjusted in real time.
- TIG argon arc welding with a repeatable electron HF high frequency arc.
- The slope of the rise/decrease is adjustable
- It has a wide range of network pressure, which can make the machine achieve stable cutting when the net pressure fluctuates （±15%).
- Adjustable pre-air and backward air supply
- Hot start current and hot start time adjustable.
- Adjustable arc force.

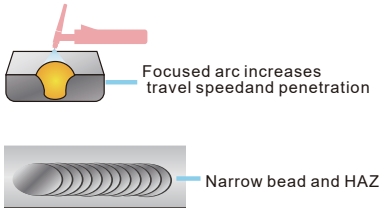
PULSED TIG CONTROLS

The Pulsed TIG function switches the amperage from ahigh(peak) to a low (background) at a set rate(PPS). Pulsingcan reduce heat input by lowering the average amperage,increasing control of the weld puddle, penetration anddistortion. Thefollowing parameters can be adjusted fordesired results:

Low-Speed Pulse

1 to 10 pulses per second(PPS) will produce a distinct ripplepattern in the weld bead. Can be used to time Iler addition,reduce distortionand improve control.

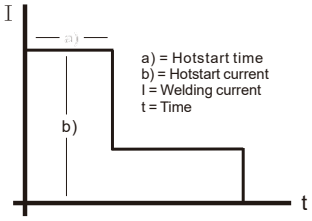
Low-Speed Pulse



100 pulses per second(PPS) and higher helps to focus the arcfor increased stability, penetration and travel speed. Increasedpuddle agitation improves weld microstructure.

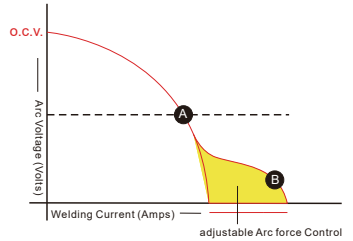
HOT START

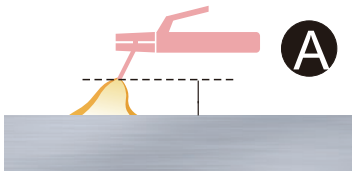
Hot Start adaptive control provides positive arc start without sticking

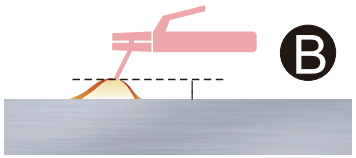


Arcforce correction (welding characteristics)

Arcforce is a setting that allows you to adjustthe arc to soft smooth arc to a more aggressive digging arc. Setting high is to bump up amperage when you have a really tight arc so that you keep welding.







TW-SERIES

TW230

Technical specifications

Item No	TW230	
	TIG	ARC
Rated Input Voltage	1x230 V (±15 %)	1x230 V (±15 %)
Load Power Capacity	4.6KVA	7.1KVA
Rated Duty Cycle	40 °C	40 °C
60%	200A	200A
100%	155A	155A
Welding Current/Voltage Range	10 A -200 A	10 A -200 A
Open Circuit Voltage	70-80V	70-80V
cos φ	0.93	0.93
Efficiency	85%	85%
Empf. Generatorleistung	7.5kVA	9.5kVA
Dimension (LxWxH)	450X225X380mm	
Weight (KG)	15KG	
Schutzart	IP 23	
standard	IEC 60974-1	

TW330

Technical specifications

Item No	TW330	
	TIG	ARC
Rated Input Voltage	3x400 V (±15 %)	3x400 V (±15 %)
Load Power Capacity	8.4KVA	12.1KVA
Rated Duty Cycle	40 °C	40 °C
60%	300A	300A
100%	232A	232A
Welding Current/Voltage Range	10 A -300 A	10 A -250 A
Open Circuit Voltage	70-80V	70-80V
cos φ	0.93	0.93
Efficiency	85%	85%
Empf. Generatorleistung	11.3kVA	15.2kVA
Dimension (LxWxH)	540X200X430mm	
Weight (KG)	18.6KG	
Schutzart	IP 23	
standard	IEC 60974-1	

Accessories

TW230

For Standard accessories

WP- 26-Torch
4M-16mm^2

Cable
200A-16mm^2-3M

Electrode holder
200A-16mm^2-3M

Gas hose
8X13.5/3M

Accessories

TW330

For Standard accessories

TIG-18-Torch
4M-10mm^2

Cable
300A-25mm^2-3M

Electrode holder
300A-25mm^2-3M

Gas hose
8X13.5/3M

VECTOR
WELDING
TECHNOLOGY
GmbH

PROFESSIONAL IN WELDING

OW-SERIES

OW230	41-44
OW240	45-48
OW250	45-48

OW-SERIES

OW230

designed
developed &
quality controlled
in germany

Quick SPecs

Processes:
TIG ARC CUT (Stick)
Applications:
Construction industry
Metal workshops
Agriculture
Repair and maintenance
Input Power:
OW230: 230V, 1-Phase
Amperage Range:
OW230 TIG: 10A-200A
ARC: 10A-200A
CUT: 10A-50A

Rated Output at 40 ° C (104°F):
OW230 TIG: 200A@60% Duty Cycle
155A@100% Duty Cycle
ARC: 200A @60% Duty Cycle
155A @100% Duty Cycle
CUT: 50A @60% Duty Cycle
31A @100% Duty Cycle
Weight : OW230/14kg

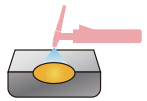
TOP Features:

- The band has a repeatable electronic HF high frequency arc.
- Raise the arc welding, do not use HF high frequency.
- 2T/4T Mode of operation.
- Slope/decay slope can be adjusted.
- The intuitive interface of operation reduces operation elements effectively and focuses on important functions.
- Adjustable pre-air and backward air supply.
- The welding parameters of arc welding machine can be adjusted in real time.
- Optional multiple remote control and foot contro.
- Hot start current and hot start time adjustable.
- Adjustable arc force.
- Air plasma cutting.

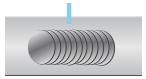
PULSED TIG CONTROLS

The Pulsed TIG function switches the amperage from ahigh(peak) to a low (background) at a set rate(PPS). Pulsingcan reduce heat input by lowering the average amperage,increasing control of the weld puddle, penetration anddistortion. Thefollowing parameters can be adjusted fordesired results:

Low-Speed Pulse

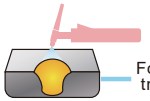


Distinct ripple pattern

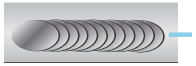


1 to 10 pulses per second(PPS) will produce a distinct ripplepattern in the weld bead. Can be used to time ller addition,reduce distortionand improve control.

High-Speed Pulse



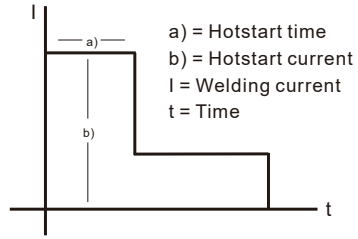
Focused arc increases travel speedand penetration



Narrow bead and HAZ

100 pulses per second(PPS) and higher helps to focus the arcfor increased stability, penetration and travel speed. Increasedpuddle agitation improves weld microstructure.

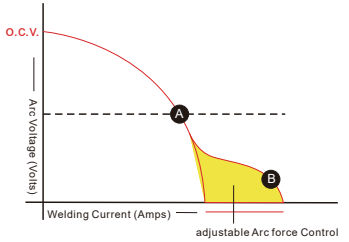
HOT START



Hot start current and hot start time adjustable

ARCFORCE CORRECTION (welding characteristics)

Arcforce is a setting that allows you to adjustthe arc to soft smooth arc to a more aggressive digging arc. Setting high is to bump up amperage when you have a really tight arc so that you keep welding.



AIR PLASMA CUTTING

http://www.vector-welding.com

OW-SERIES

OW230

Technical specifications

Item No	OW230		
	TIG	ARC	CUT
Rated Input Voltage	1x230 V (±15 %)	1x230 V (±15 %)	1x230 V (±15 %)
Load Power Capacity	4.6KVA	7.1KVA	6.3KVA
Rated Duty Cycle	40 °C	40 °C	40 °C
60%	200A	200A	50A
100%	155A	155A	31A
Welding Current/Voltage Range	10 A -200 A	10 A -200 A	10 A -50 A
Open Circuit Voltage	70-80V	70-80V	260-330V
cos φ	0.93	0.93	0.93
Efficiency	85%	85%	85%
Empf. Generatorleistung	7.5kVA	9.9kVA	7.5kVA
Dimension (LxWxH)	450X225X380mm		
Weight (KG)	14KG		
Schutzart	IP 23		
standard	IEC 60974-1		

Accessories

OW230

For Standard accessories

WP-26-Torch
4M-16mm^2

Cable
200A-16mm^2-3M

Electrode holder
200A-16mm^2-3M

AG-60-Torch
4M-6mm^2

Gas hose
8X13.5/3.5M

OW-SERIES

OW240/OW250

designed
developed &
quality controlled
in germany

Quick SPecs

Processes:
TIG ARC CUT (Stick)
Applications:
Construction industry
Metal workshops
Agriculture
Repair and maintenance
Input Power:
OW240: 230V, 1-Phase
OW250: 230V, 1-Phase
Amperage Range:
OW240: TIG: 10A-200A
ARC: 10A-200A
CUT: 10A-50A
OW250 TIG: 10A-200A
ARC: 10A-200A
CUT: 10A-50A

Rated Output at 40 ° C (104°F):
OW240 TIG: 200A@60% Duty Cycle
155A@100% Duty Cycle
ARC: 200A @60% Duty Cycle
155A @100% Duty Cycle
CUT: 50A @60% Duty Cycle
31A @100% Duty Cycle
OW250 TIG: 200A @60% Duty Cycle
155A @100% Duty Cycle
ARC: 200A @60% Duty Cycle
155A @100% Duty Cycle
CUT: 50A @60% Duty Cycle
31A @100% Duty Cycle
Weight : OW240/13kg OW250/20.9kg

TOP Features:

TIG
- The band has a repeatable electronic HF high frequency arc.
- Raise the arc welding, do not use HF high frequency.
- 2T/4T Mode of operation.
- Slope/decay slope can be adjusted.
- The welder pulse parameter is accurate.There are 9 sets of welding parameters available.
- High frequency and stroke arc function can be chosen.

ARC
- Hot start current and hot start time adjustable.
- Adjustable arc force.
- Air plasma cutting.

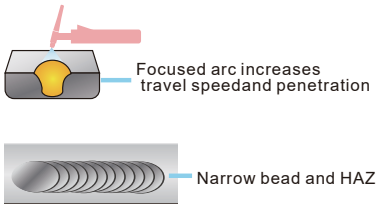
PULSED TIG CONTROLS

The Pulsed TIG function switches the amperage from ahigh(peak) to a low (background) at a set rate(PPS). Pulsingcan reduce heat input by lowering the average amperage,increasing control of the weld puddle, penetration anddistortion. Thefollowing parameters can be adjusted fordesired results:

Low-Speed Pulse

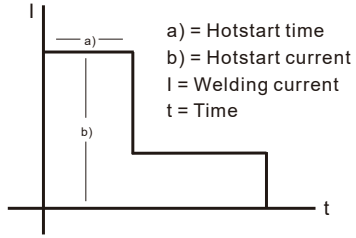
1 to 10 pulses per second(PPS) will produce a distinct ripplepattern in the weld bead. Can be used to time ller addition,reduce distortionand improve control.

High-Speed Pulse



100 pulses per second(PPS) and higher helps to focus the arcfor increased stability, penetration and travel speed. Increasedpuddle agitation improves weld microstructure.

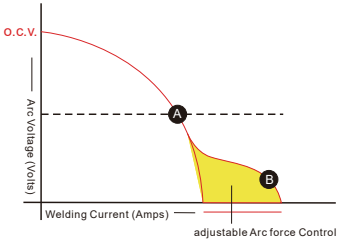
HOT START



Hot start current and hot start time adjustable

ARCFORCE CORRECTION (welding characteristics)

Arcforce is a setting that allows you to adjustthe arc to soft smooth arc to a more aggressive digging arc. Setting high is to bump up amperage when you have a really tight arc so that you keep welding.



AIR PLASMA CUTTING

OW-SERIES

OW240

Technical specifications

Item No	OW240		
	TIG	ARC	CUT
Rated Input Voltage	1x230 V (±15 %)	1x230 V (±15 %)	1x230 V (±15 %)
Load Power Capacity	4.6KVA	7.1KVA	6.3KVA
Rated Duty Cycle	40 °C	40 °C	40 °C
60%	200A	200A	50A
100%	155A	155A	31A
Welding Current/Voltage Range	10 A -200 A	10 A -200 A	10 A -50 A
Open Circuit Voltage	70-80V	70-80V	260-330V
cos φ	0.93	0.93	0.93
Efficiency	85%	85%	85%
Empf. Generatorleistung	7.5kVA	9.9kVA	7.5kVA
Dimension (LxWxH)	460X220X420mm		
Weight (KG)	13KG		
Schutzart	IP 23		
standard	IEC 60974-1		

OW250

Technical specifications

Item No	0W250		
	TIG	ARC	CUT
Rated Input Voltage	1x230 V (±15 %)	1x230 V (±15 %)	1x230 V (±15 %)
Load Power Capacity	4.6KVA	7.1KVA	6.3KVA
Rated Duty Cycle	40 °C	40 °C	40 °C
60%	200A	200A	50A
100%	155A	155A	31A
Welding Current/Voltage Range	10 A -200 A	10 A -200 A	10A -50 A
Open Circuit Voltage	70-80V	70-80V	260-330V
cos φ	0.93	0.93	0.93
Efficiency	85%	85%	85%
Empf. Generatorleistung	7.5kVA	9.9kVA	7.5kVA
Dimension (LxWxH)	500X330X360mm		
Weight (KG)	20.9KG		
Schutzart	IP 23		
standard	IEC 60974-1		

Accessories

OW240

For Standard accessories

WP-26-Torch 4M-16mm^2

Cable 200A-16mm^2-3M

Electrode holder 200A-16mm^2-3M

AG-60-Torch 4.5M-6mm^2

Gas hose 8X13.5/3.5M

Accessories

OW250

For Standard accessories

WP-26-Torch 4M-16mm^2

Cable 200A-16mm^2-3M

Electrode holder 200A-16mm^2-3M

AG-60-Torch 4.5M-6mm^2

Gas hose 8X13.5/3.5M

RW-SERIES

RW160	51-54
RW230	55-58
MIG350/MIG500	59-62

VECTOR WELDING TECHNOLOGY GmbH

PROFESSIONAL IN WELDING

RW-SERIES

RW160

designed
developed &
quality controlled
in germany

QUICK SPECS

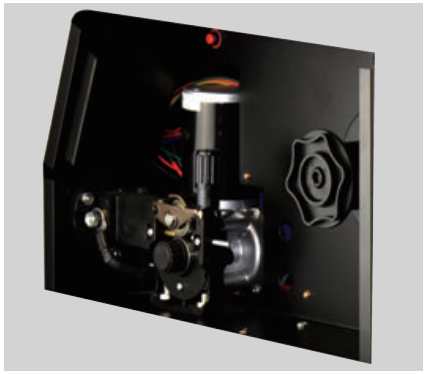
Processes:
MIG MAG ARC (stick)
Applications:
Metal fabrication workshops
Shipyards and offshore industry
Chemical and process industry
Steel structure workshops
Input Power:
RW160 MIG: 230V, 1-Phase
ARC: 230V, 1-Phase

Amperage Range:
RW160 MIG: 5A-200A
ARC: 5A-170A
Rated Output At 40 ° C (104°F):
RW160 MIG: 200A @40% duty cycle
155A @60% duty cycle
126A @100% duty cycle
ARC: 170A @40% duty cycle
132A @60% duty cycle
107A @100% duty cycle
Weight : 14.8kg

TOP Features:

- Multi-function inverter welder, with simple one-dimensional one-key parameter adjustment and built-in feeding mechanism.
- Carbon dioxide gas protection welder.
- Multi-function welder: mma/mig/mag, carbon steel and stainless steel welding are good.
- Using the high-performance mcu controller, the igbt loss is reduced, the power supply dynamic response is fast, and the energy efficiency is extremely high.
- Welding arc with coordinated control, waveform control and stable.
- The largest diameter 200mm/d200.
- The distribution of 0.8mm steel wires in diameter.
- Adjustable arc force.

BUILT-IN WIRE FEEDING MACHINE

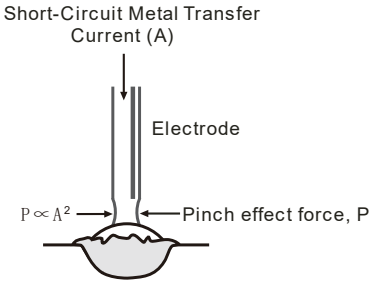


The largest diameter 200mm/D200.the Distribution of 0.8mm steel wires in diameter.

ADVANCED MIG/MAG

In the advanced mig mode, mig/mag welding Is carried outin carbon dioxide gas with Automatic wire feed. With this mode, a high Welding speed and excellent quality are Offered without any extra costs in the Processing of ferrous metals, as well as various steels.

THE SHORT-CIRCUITING METAL TRANSFER



The short-circuiting metal transfer mode is the low heat input mode of metal transfer for GMAW and has higher electrode efficiencies, 93% or more. The low heat input reduces weldment distortion and makes it ideal for sheet metal thickness materials.

RW-SERIES

RW160

Technical specifications

Item No	RW160	
	MIG	ARC
Rated Input Voltage	1x230 V (±15 %)	1x230 V (±15 %)
Load Power Capacity	6.1KVA	5.8KVA
Rated Duty Cycle	40 °C	40 °C
40%	200A	170A
60%	155A	132A
100%	126A	107A
Welding Current/Voltage Range	5 A -200 A	5 A -170 A
Open Circuit Voltage	70-80V	70-80V
cos φ	0.93	0.93
Efficiency	85%	85%
Empf. Generatorleistung	7.5kVA	7.5kVA
Dimension (LxWxH)	415X225X390mm	
Weight (KG)	14.8KG	
Schutzart	IP 21	
standard	IEC 60974-1	

Accessories

RW160

For Standard accessories

MB-15AK-Torch
3M-16mm^2

Cable
200A-16mm^2-3M

Electrode holder
200A-16mm^2-3M

Gas hose
8X13.5/3M

RW-SERIES

RW230

designed
developed &
quality controlled
in germany

Quick SPecs

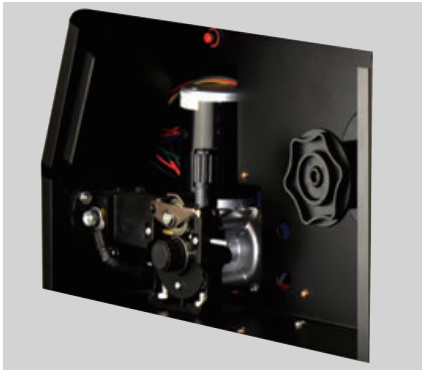
Processes:
MIG ARC TIG (Stick)
Applications:
Construction industry
Metal workshops
Agriculture
Repair and maintenance
Input Power:
RW230 MIG: 230V, 1-Phase
ARC: 230V, 1-Phase
TIG: 230V, 1-Phase
Amperage Range:
RW230 MIG: 10A-200A
ARC: 10A-200A
TIG: 10A-200A

Rated Output at 40 ° C (104°F):
RW230 MIG: 200A @35% Duty Cycle
155A @60% Duty Cycle
118A @100% Duty Cycle
ARC: 200A @35% Duty Cycle
115A @60% Duty Cycle
118A @100% Duty Cycle
TIG: 200A @35% Duty Cycle
155A @60% Duty Cycle
118A @100% Duty Cycle
Weight: 14.8kg

TOP Features:

- CO^2 gas protect.
- Multi-function: MMA/MIG/MAG/TIG, well performance on carbon steel and stainless steel.
- Perfect point welding on 0.8mm thin sheet.
- Preshow current and voltage ,digital display, wire roll speed presetting.
- Non-latched/latched operation.
- High mains voltage tolerance +15%to maintain stable work.
- Output current enough ,high duty cycle.
- Wire spool diameter up to 300 mm/D300.
- Equipped for 0.8 mm steel wire.
- Stable welding to minimize the spatter.
- Over-current and over-heat protect.

BUILT-IN WIRE FEEDING MACHINE

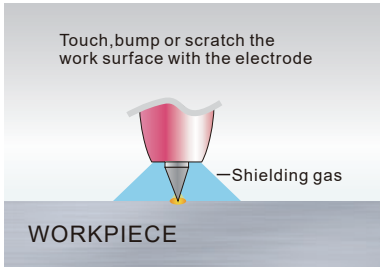


The largest diameter 300mm/D300.the Distribution of 0.8mm steel wires in diameter.

ADVANCED MIG/MAG

In the advanced mig mode, mig/mag welding Is carried outin carbon dioxide gas with Automatic wire feed. With this mode, a high Welding speed and excellent quality are Offered without any extra costs in the Processing of ferrous metals, as well as various steels.

LIFT TIG MODE



Lift TIG Mode provides TIG arc initiation without the use of high frequency. Touch, bump or scratch the work surface with the electrode to start the arc. It also has a good result in tig welding.

2T/4T MODE OF OPERATION

2T normal state, when welding, need to hold the switch, when not welding, just loosen up.

4T is semi-automatic, operation form is by gun switch, loosen, belong to open working condition, can be welded continuously, do not need to hold off switch. After welding, press thegun switch and stop working.

2T is used for short seam welding and spot welding welding, 4T is suitable for long seam long welding, and when welding, it is not necessary to keep down the welding gun switch and reduce finger fatigue.

RW230

Technical specifications

Item No	RW230		
	MIG	ARC	TIG
Rated Input Voltage	1x230 V (±15 %)	1x230 V (±15 %)	1x230 V (±15 %)
Load Power Capacity	6.1KVA	7.1KVA	4.6KVA
Rated Duty Cycle	40 °C	40 °C	40 °C
35%	200A	200A	200A
60%	155A	155A	155A
100%	118A	118A	118A
Welding Current/Voltage Range	10A -200 A	10A -200 A	10A -200A
Open Circuit Voltage	70-80V	70-80V	70-80V
cos φ	0.93	0.93	0.93
Efficiency	85%	85%	85%
Empf. Generatorleistung	7.5kVA	7.5kVA	7.5kVA
Dimension (LxWxH)	415x225x390mm		
Weight (KG)	14.8KG		
Welding torch interface	European central interface		
Schutzart	IP 21		
standard	IEC 60974-1		

Accessories:

RW230

For Standard accessories

MB-15AK-Torch
3M-16mm^2

Cable
200A-16mm^2-3M

Electrode holder
200A-16mm^2-3M

WP-26-Torch
5M-16mm^2

Gas hose
8X13.5/3M

MIG350/500

MIG350/500

designed
developed &
quality controlled
in germany

Quick SPecs

Processes:
MIG ARC (Stick)
Applications:
Construction industry
Metal workshops
Agriculture
Repair and maintenance
Input Power:
MIG350: 400V, 3-Phase
MIG500: 400V, 3-Phase

Amperage Range:
MIG350: 60A-350A
MIG500: 80A-500A
Rated Output at 40 ° C (104°F):
MIG350: 350A @60% Duty Cycle
271A @100% Duty Cycle
MIG500: 500A @60% Duty Cycle
387A @100% Duty Cycle
Weight: MIG350/28kg MIG500/42kg

TOP Features:

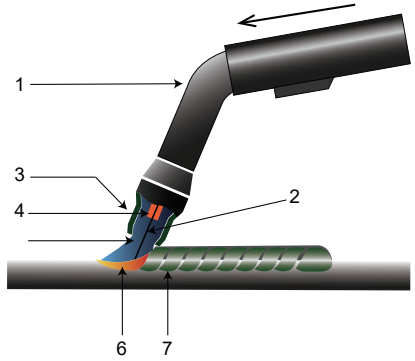
- Full digital control system helps to realize accurate control of the welding process and stable arc length.
- Digital wire feeding control system ensures wire feeding accurate and smooth.
- System built-in welding expert database supports automatic intelligent combination of parameters.
- Friendly operation interface and centralized adjustment methods improve easiness of system operation.
- Welding spatter is limited, which is helpful to get the good welding results.
- It can store up to 100 sets of welding procedures. Thanks to it, operating time can be saved.
- Unique "four steps" function(special, latched) is suitable for welding metal with good thermal conductivity. Quality of arc starting and arc stopping shall be guaranteed.
- Various interfaces connected to the automation and mechanization system are optional.
- ZVS function and inverter technology improve the reliability and energy saving of the whole system.
- Double pulse function can get beautiful scales weld appearance.
- Fast adjustment and convenient digital welding torch is optional.

Metal inert Gas (MIG) welding is a consumable electrode welding process that produces an arc between the weld pool and a continuously supplied filler metal. An e xternally supplide gas is used to shiesld the arc. A variation of the MIG process, referred to as metal cored electrodes,uses a tubular electrode filled mostly with metallic powders forms. These types of electrodes must use a gas shield to prevent contamination of the molten weld by the atmosphere.

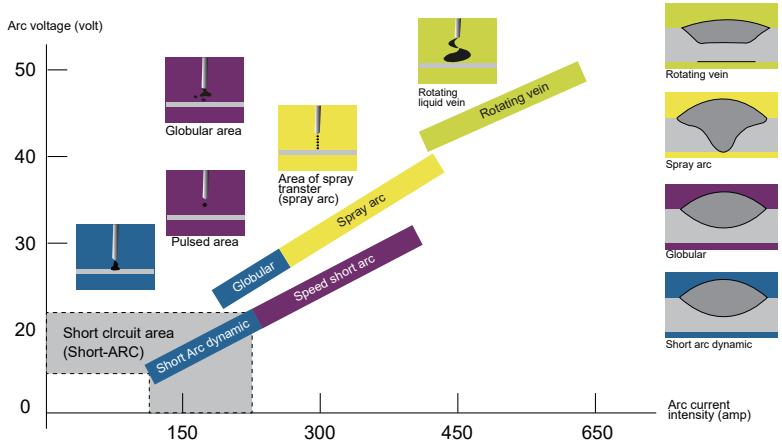
Advantages of MIG welding include its ability to be operated in semiautomatic, machine, or automatic modes. It is the only consumable process that can weld all commercially important metals,cuch as carbon steel, high-strength low alloy steel, stainless steel, nickel alloys, titanium,aluminum, and copper, A weld can be performed in all positions with the proper choice of electrode, shielding gas, and welding variables. Comparde with shielded metal arc welding (SMAW), the deposition rates and welding rates are higher for MIG. Also,the continuos electrode feed makes long welds possible without stops and starts. On the downside,the equipment for MIG is more complex, more expensive. and less portable than the SMAW PROCESS.

MIG-MAG Process

1. Torch
2. Electrode wire
3. Nozzle
4. Contact tip
5. Gaseous protection
6. Molten metal
7. Weld bead



MIG-MAG Welding Process



MIG350/500

Technical specifications

Item No	MIG350	MIG500
	MIG	MIG
Rated Input Voltage	3x400V (±15 %)	3x400V (±15 %)
Load Power Capacity	13.7KVA	24.6KVA
Rated Duty Cycle	40 °C	40 °C
60%	350A	500A
100%	271A	387A
Welding Current/Voltage Range	60A -350A	80A -500A
Open Circuit Voltage	70-80V	70-80V
cos φ	0.93	0.93
Efficiency	85%	85%
Empf. Generatorleistung	20kVA	30kVA
Dimension (LxWxH)	515X262X494mm	650X330X620mm
Weight (KG)	28KG	42KG
Schutzart	IP 23	IP 23
standard	IEC 60974-1	IEC 60974-1

Accessories

MIG350

For Standard accessories

MIG Torch QTB-350D
4M-50mm^2

Cable
500A-50mm^2-5M

Gas hose
8X13.5/3M

Accessories

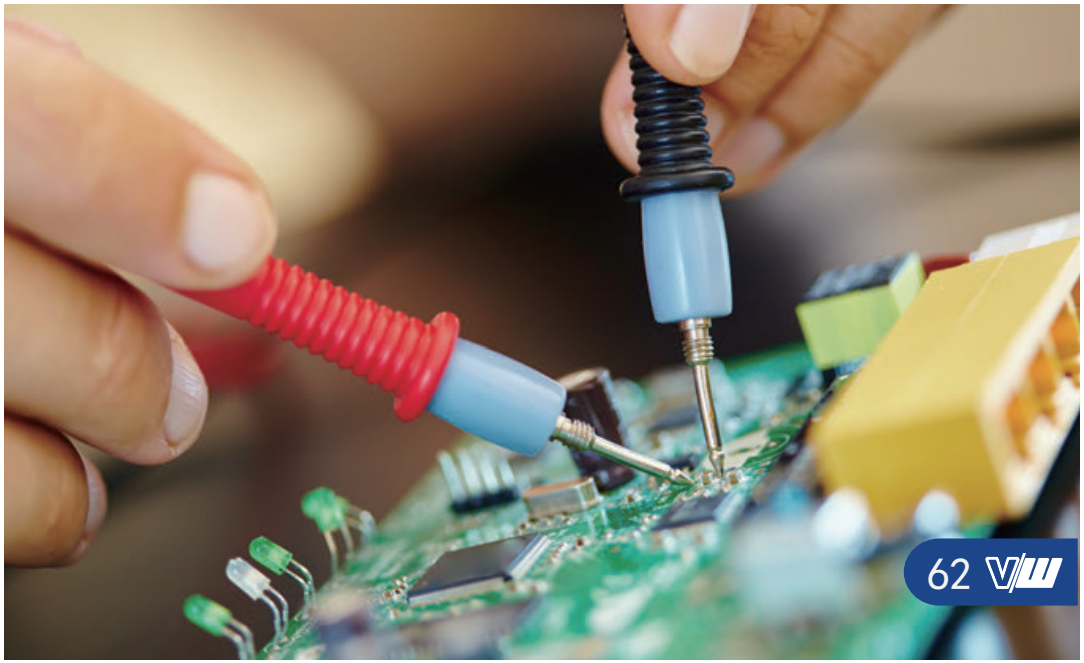
MIG500

For Standard accessories

MIG Torch QTB-500D
4M-70mm^2

Cable
500A-70mm^2-5M

Gas hose
8X13.5/3M



CERTIFICATE

CERTIFICATE

CERTIFICATE

BUNDESREPUBLIK DEUTSCHLAND
URKUNDE

URKUNDE
VECTOR WELDING TECHNOLOGY GmbH

Bundesrepublik Deutschland
Urkunde

CERTIFICATE OF CONFORMITY
CERTIFICATE
CE

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NOTE:

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商标注册证

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