

iWeld®



**TAURUS®**

**WELDING AND PLASMA CUTTING  
MACHINES**

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# TAURUS MMA 120A MINI WELDER - 220V



The TAURUS MMA 120A MINI single phase, 220V stick-electrode welding machine is designed and manufactured to the latest digital -inverter technology for demanding industrial applications. It is a compact light-weight inverter machine which ensures a clean, high-quality weld and excels in basic and rutile electrode welding. The advanced power input system will detect and handle a voltage drop or a spike of up to 25%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. Professional and DIY welders can experience the built-in characteristics of anti-stick, hot -start and arc-force.

ACCESSORIES

SOME KEY FEATURES

- Earth-clamp cable kit.
- Electrode-holder cable kit.
- Toolbox
- Hand-held welding helmet.
- Mini chipping hammer with wire brush.

- IGBT system.
- 25% Voltage fluctuation safeguard.
- Generator friendly.
- Anti-stick, arc-force, hot start.
- Overheating & overvoltage self-protection.
- Digital display.
- TIG (scratch, not HF).

OPTIONAL EXTRAS

- TIG torch
- Argon flowmeter.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-ARC120MINI
MODEL	ARC-120 MINI
RATED POWER SUPPLY INPUT	220V±25% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	35% @ 120A
OPEN CIRCUIT VOLTAGE	56V
WELDING CURRENT RANGE	20 - 120A
ELECTRODE SIZE	1.6 - 3.2mm
NET WEIGHT(kg)	2.89kg

# TAURUS MMA 160A WELDER - 220V



The TAURUS MMA 160A single phase, 220V stick-electrode welding machine is designed and manufactured to the latest digital-inverter technology for demanding industrial applications. It is a compact light-weight inverter machine which ensures a clean, high-quality weld and excels in basic and rutile electrode welding. The advanced power input system will detect and handle a voltage drop or a spike of up to 25%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. Professional and DIY welders can experience the built-in characteristics of anti-stick, hot-start and arc-force.

ACCESSORIES

SOME KEY FEATURES

- Earth-clamp cable kit.
  - Electrode-holder cable kit.
  - Toolbox
  - Hand-held welding helmet.
  - Mini chipping hammer with wire brush.
- IGBT system.
  - 25% Voltage fluctuation safeguard.
  - Generator friendly.
  - Anti-stick, arc-force, hot start.
  - Overheating & overvoltage self-protection.
  - Digital display.
  - TIG (scratch, not HF).
- OPTIONAL EXTRAS

- TIG torch
  - Argon flowmeter.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-ARC160
MODEL	ARC-160
RATED POWER SUPPLY INPUT	220V±25% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	35% @ 160A
OPEN CIRCUIT VOLTAGE	56V
WELDING CURRENT RANGE	20 - 160A
ELECTRODE SIZE	1.6 - 4.0mm
DIMENSIONS(mm)	465 x 270 x 330



# TAURUS MMA 200A WELDER - 220V



The TAURUS MMA 200A single phase, 220V stick-electrode welding machine is designed and manufactured to the latest digital-inverter technology for demanding industrial applications. It is a compact light-weight inverter machine which ensures a clean, high-quality weld and excels in basic and rutile electrode welding. The advanced power input system will detect and handle a voltage drop or a spike of up to 25%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. Professional and DIY welders can experience the built-in characteristics of anti-stick, hot-start and arc-force.

## ACCESSORIES

- Earth-clamp cable kit.
- Electrode-holder cable kit.
- Shoulder-strap.
- Hand-held welding helmet.
- Mini chipping hammer with wire brush.

## OPTIONAL EXTRAS

- TIG torch
- Argon flowmeter.

## SOME KEY FEATURES

- IGBT system.
- 25% Voltage fluctuation safeguard.
- Generator friendly.
- Anti-stick, arc-force, hot start.
- Overheating & overvoltage self-protection.
- Digital display.
- TIG (scratch, not HF).
- Permanent VRD built in.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-ARC200
MODEL	ARC-200
RATED POWER SUPPLY INPUT	220V±25% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	35% @ 200A
OPEN CIRCUIT VOLTAGE	56V
WELDING CURRENT RANGE	20 - 200A
ELECTRODE SIZE	2.0 - 5.0mm
DIMENSIONS(mm) AND NET WEIGHT(kg)	465 x 270 x 330mm ▪ 5.5kg

# TAURUS ARC-200DP PULSE/SYNERGIC WELDER - 220V



The TAURUS ARC 200 DP single phase, 200A, 220V stick-electrode welding machine is designed and manufactured to the latest digital-inverter technology for demanding industrial applications. The pulsed MMA welding system offers even stirring of the molten pool, eliminating porosity and ensures firm and deep penetration welding. It is a compact light-weight inverter machine which ensures a clean, high-quality weld and excels in basic and rutile electrode welding. The advanced power input system will detect and handle a voltage drop or a spike of up to 25%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. Professional and DIY welders can experience the built-in characteristics of anti-stick, hot-start and arc-force.

## ACCESSORIES

- Earth-clamp cable kit.
- Electrode-holder cable kit.

## OPTIONAL EXTRAS

- TIG torch
- Argon flowmeter.

## SOME KEY FEATURES

- IGBT pulse/synergic system.
- 25% Voltage fluctuation safeguard.
- Generator friendly.
- High-resolution LCD screen.
- Permanent VRD.
- Adjustable hot-start arc ignition.
- Enhanced overheating protection.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-ARC200DP
MODEL	ARC-200DP
RATED POWER SUPPLY INPUT	220V±25% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 200A
OPEN CIRCUIT VOLTAGE	62V
WELDING CURRENT RANGE	20 - 200A
ELECTRODE SIZE	2.0 - 5.0mm
DIMENSIONS(mm) AND NET WEIGHT(kg)	465 x 225 x 320mm ▪ 5.5kg

# TAURUS MMA-250VRD HEAVY DUTY WELDER - 220V



The TAURUS MMA 250VRD single phase, 220V stick-electrode welding machine is designed and manufactured to the latest digital-inverter technology for demanding industrial applications. It is a compact light-weight inverter machine which ensures a clean, high-quality weld and excels in basic and rutile electrode welding. Professional and DIY welders can experience the built-in characteristics of anti-stick, hot-start and arc-force. The advanced power input system will detect and handle a voltage drop or a spike of up to 25%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. The VRD has an added safety function keeping the output voltage low (lowering the output voltage) when the machine is not in use.

## ACCESSORIES

- Earth-clamp cable kit..
- Electrode-holder cable kit..
- Shoulder-strap.

## OPTIONAL EXTRAS

- TIG torch.
- Argon flowmeter.

## SOME KEY FEATURES

- 100% duty cycle at 250A.
- IGBT system.
- 25% Voltage fluctuation safeguard.
- Generator friendly.
- Anti-stick, arc-force, hot start.
- Overheating & overvoltage self-protection.
- Digital display.
- TIG (scratch, not HF).
- Manual on/off voltage reduction device (VRD).

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MMA250VRD
MODEL	TA-MMA-250VRD
RATED POWER SUPPLY INPUT	220V±25% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	100% @ 250A
OPEN CIRCUIT VOLTAGE	WITHOUT VRD (62V) ▪ WITH VRD ( $\leq 15V$ )
WELDING CURRENT RANGE	15 - 250A
ELECTRODE SIZE	2.0 - 5.0mm
DIMENSIONS(mm) AND NET WEIGHT(kg)	530 x 315 x 435mm ▪ 10kg







## ACCESSORIES

- Earth clamp cable kit.
- Electrode holder cable kit.

This Taurus MMA400 is a 380V, 400A DC MMA welding and gouging inverter machine. With its high-power IGBT and advanced inverter technology, it has good dynamic characteristics, stable arc, good welding quality and is easy to control, etc... The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. It is widely used in mining, petrochemical industry, electric power construction, shipbuilding, machinery manufacturing, building construction, indoor and outdoor decoration, hardware products, furniture manufacturing, kitchen equipment and other industries. The Taurus MMA400 has a reasonable static and external characteristics and good dynamic performance. It is manufactured in accordance with safety requirements for arc welding equipment, IEC60974-1, Safety Requirements for Arc Welding Equipment.

## SOME KEY FEATURES

- Generator friendly.
- 15% Voltage fluctuation safeguard.
- The Advanced control technology is used to meet various welding applications and greatly improve welding performance.
- It features easy arc starting, stable arc, less spatter, high metal deposition rate, less deformation and high seam quality.
- Adjustable ignition current and hot start arc ignition adjustment can render to MMA welding, making the function simpler and reliable in a higher degree.
- VRD function anti-electric shock protection attaches importance to personal safety and be in line with international laws and international norms.
- Overheat protection enables high reliability of the welding machine.
- The machine meets IP21S protection level to ensure its reliability in harsh environment.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MMA400
MODEL	MMA-400
POWER SUPPLY VOLTAGE	380V±15% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	80% @ 400A
OPEN CIRCUIT VOLTAGE	68V
WELDING RANGE	20 TO 400A
ELECTRODE SIZE	1.6 TO 6.0mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	647 x 367 x 542mm ■ 18KG



# TAURUS MMA-400L HEAVY DUTY WELDER - 380/525V



This Taurus MMA400L is a dual voltage, 400A DC MMA welding and gouging inverter machine. With its high-power IGBT and advanced inverter technology, it has good dynamic characteristics, stable arc, good welding quality and is easy to control, etc... The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. It is widely used in mining, petrochemical industry, electric power construction, shipbuilding, machinery manufacturing, building construction, indoor and outdoor decoration, hardware products, furniture manufacturing, kitchen equipment and other industries. The Taurus MMA400L has a reasonable static and external characteristics and good dynamic performance. It is manufactured in accordance with safety requirements for arc welding equipment, IEC60974-1, Safety Requirements for Arc Welding Equipment.

## SOME KEY FEATURES

- Generator friendly.
- 15% Voltage fluctuation safeguard.
- A high duty cycle of 80% at 400A.
- The Advanced control technology is used to meet various welding applications and greatly improve welding performance.
- It features easy arc starting, stable arc, less spatter, high metal deposition rate, less deformation and high seam quality.
- Adjustable ignition current and hot start arc ignition adjustment can render to MMA welding, making the function simpler and reliable in a higher degree.
- VRD function anti-electric shock protection attaches importance to personal safety and be in line with international laws and international norms.
- Overheat protection enables high reliability of the welding machine.
- The machine meets IP21S protection level to ensure its reliability in harsh environment.

## ACCESSORIES

- Earth clamp cable kit.
- Electrode holder cable kit.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MMA400L
MODEL	MMA-400L
POWER SUPPLY VOLTAGE	380/525V±15% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	80% @ 400A
OPEN CIRCUIT VOLTAGE	68V
WELDING RANGE	20 TO 400A
ELECTRODE SIZE	1.6 TO 6.0mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	647 x 367 x 542mm ▪ 19KG





## ACCESSORIES

- Earth clamp cable kit.
- Electrode holder cable kit.

This Taurus MMA630 is a 380V, 630A DC MMA welding and gouging inverter machine. With its high-power IGBT and advanced inverter technology, it has good dynamic characteristics, stable arc, good welding quality and is easy to control, etc... The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. It is widely used in mining, petrochemical industry, electric power construction, shipbuilding, machinery manufacturing, building construction, indoor and outdoor decoration, hardware products, furniture manufacturing, kitchen equipment and other industries. The Taurus MMA630 has a reasonable static and external characteristics and good dynamic performance. It is manufactured in accordance with safety requirements for arc welding equipment, IEC60974-1, Safety Requirements for Arc Welding Equipment.

## SOME KEY FEATURES

- Generator friendly.
- 15% Voltage fluctuation safeguard.
- A high duty cycle of 80% at 630A.
- The Advanced control technology is used to meet various welding applications and greatly improve welding performance.
- It features easy arc starting, stable arc, less spatter, high metal deposition rate, less deformation and high seam quality.
- Adjustable ignition current and hot start arc ignition adjustment can render to MMA welding, making the function simpler and reliable in a higher degree.
- VRD function anti-electric shock protection attaches importance to personal safety and be in line with international laws and international norms.
- Overheat protection enables high reliability of the welding machine.
- The machine meets IP21S protection level to ensure its reliability in harsh environment.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MMA630
MODEL	MMA-630
POWER SUPPLY VOLTAGE	380V±15% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	80% @ 630A
OPEN CIRCUIT VOLTAGE	77V
WELDING RANGE	20 TO 630A
ELECTRODE SIZE	1.6 TO 6.0mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	647 x 367 x 542mm ▪ 24KG





# TAURUS MMA-630L HEAVY DUTY WELDER/ GOUGING - 380/525V



This Taurus MMA630L is a dual voltage, 630A DC MMA welding and gouging inverter machine. With its high-power IGBT and advanced inverter technology, it has good dynamic characteristics, stable arc, good welding quality and is easy to control, etc... The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. It is widely used in mining, petrochemical industry, electric power construction, shipbuilding, machinery manufacturing, building construction, indoor and outdoor decoration, hardware products, furniture manufacturing, kitchen equipment and other industries. The Taurus MMA630L has a reasonable static and external characteristics and good dynamic performance. It is manufactured in accordance with safety requirements for arc welding equipment, IEC60974-1, Safety Requirements for Arc Welding Equipment.

## SOME KEY FEATURES

- Generator friendly.
- 15% Voltage fluctuation safeguard.
- A high duty cycle of 80% at 630A.
- The Advanced control technology is used to meet various welding applications and greatly improve welding performance.
- It features easy arc starting, stable arc, less spatter, high metal deposition rate, less deformation and high seam quality.
- Adjustable ignition current and hot start arc ignition adjustment can render to MMA welding, making the function simpler and reliable in a higher degree.
- VRD function anti-electric shock protection attaches important to personal safety and be in line with international laws and international norms.
- Overheat protection enables high reliability of the welding machine.
- The machine meets IP21S protection level to ensure its reliability in harsh environment.

## ACCESSORIES

- Earth clamp cable kit.
- Electrode holder cable kit.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MMA630L
MODEL	MMA-630L
POWER SUPPLY VOLTAGE	380/525V±15% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	80% @ 630A
OPEN CIRCUIT VOLTAGE	77V
WELDING RANGE	20 TO 630A
ELECTRODE SIZE	1.6 TO 6.0mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	647 x 367 x 542mm ▪ 27KG



# TAURUS TIG-DC-180A WELDER - 220V



The Taurus TIG DC 180A inverter is a robust, generator-friendly machine designed and manufactured for operation under demanding industrial conditions. The advanced power input system will detect and handle a voltage drop or a spike of up to 25%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. The high frequency ignition ensure professional ease of welding, high-quality welds and creates a very soft start arc and maximum arc control. This obviates the need to touch the work-piece with the tungsten electrode. This offers great advantage when welding thin material.

## ACCESSORIES

- Earth clamp cable kit.
- Electrode cable kit.
- TIG torch.
- Argon flowmeter.

## SOME KEY FEATURES

- IGBT system.
- 25% Voltage fluctuation safeguard..
- Soft, stable arc.
- High quality welds.
- LED digital display.
- High frequency ignition.
- Overheat protection.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-TIG180M
MODEL	TIG180-M
RATED POWER SUPPLY INPUT FOR TIG	220V±25% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	35% @ 180A
OPEN CIRCUIT VOLTAGE	60V
WELDING CURRENT RANGE	10 - 180A
DIMENSIONS(mm) AND NET WEIGHT(kg)	465 x 270 x 345mm ▪ 10.2kg



TAURUS TIG-DC-200A PULSE WELDER - 220V



The Taurus TIG DC 200A PULSE inverter is a robust, generator-friendly machine designed and manufactured for operation under demanding industrial conditions. The advanced power input system will detect and handle a voltage drop or a spike of up to 25%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. The two main built-in functions, pulse welds and high frequency ignition, ensure professional ease of welding and high-quality welds. The pulse function facilitates control over the welding process and prevents burn-through on the workpiece. The high frequency ignition creates a very soft start arc and maximum arc control. This obviates the need to touch the workpiece with the tungsten electrode. Both functions have a great advantage when welding thin material.

ACCESSORIES

SOME KEY FEATURES

- Earth clamp cable kit.
  - Electrode cable kit.
  - TIG torch.
  - Argon flowmeter.
- IGBT system.
  - 25% Voltage fluctuation safeguard.
  - Heavy duty.
  - Soft, stable arc.
  - High quality welds.
  - LCD digital display.
  - Pulse welding and high frequency ignition.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-TIG200DC-HF-P
MODEL	TA-TIG200DC-HF-P
RATED POWER SUPPLY INPUT FOR TIG	220V±25% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	40% @ 190A
OPEN CIRCUIT VOLTAGE	62V
WELDING CURRENT RANGE	20 - 200A
DIMENSIONS(mm) AND NET WEIGHT(kg)	320 x 160 x 300mm ▪ 8kg



TAURUS TIG-AC/DC-200A PULSE WELDER - 220V



The Taurus TIG AC/DC 200A PULSE inverter is a robust, generator-friendly machine designed and manufactured for operation under demanding industrial conditions. The advanced power input system will detect and handle a voltage drop or a spike of up to 20%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. The two main built-in functions, pulse welds and high frequency ignition, ensure professional ease of welding and high-quality welds. The pulse function facilitates control over the welding process and prevents burn-through on the workpiece. The high frequency ignition creates a very soft start arc as well as maximum arc control. This obviates the need to touch the workpiece with the tungsten electrode. Both functions have a great advantage when welding thin material. The Taurus TIG AC/DC 200A PULSE inverter's selection panel allows welding with either AC or DC current - in AC mode for aluminium welding or in DC mode for all steel and steel alloy materials.

ACCESSORIES

- Earth clamp cable kit.
- Electrode holder cable kit.
- TIG torch.
- Argon flowmeter.

SOME KEY FEATURES

- IGBT system.
- 20% Voltage fluctuation safeguard.
- Heavy duty.
- Soft, stable arc.
- High quality welds.
- LCD digital display.
- Pulse welding and high frequency ignition.

OPTIONAL EXTRA

- Foot control if AC welding is required (TA-FOOT-CONTROL).

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-TIG200ACDC-HF-P
MODEL	TA-TIG200ACDC-HF-P
RATED POWER SUPPLY INPUT	220V±20% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 200A ▪ 100% @ 155A
OPEN CIRCUIT VOLTAGE	56V
WELDING CURRENT RANGE	5 - 200A
DIMENSIONS(mm) AND NET WEIGHT(kg)	500 x 220 x 400mm ▪ 12kg

TAURUS TIG-AC/DC-200PI WELDER - 220V



This Taurus TIG200PI AC/DC is a 200A, 220V AC/DC TIG inverter welding machine. With it's high-power IGBT and advanced inverter technology, it has good dynamic characteristics, stable arc, good welding quality and is easy to control, etc... The advanced power input system will detect and handle a voltage drop or a spike of up to 25%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. Suitable for welding non-ferrous metal material, like stainless steel, alloy steel, carbon steel, and copper, etc. and can be applied to electric power construction, building construction, hardware products, furniture manufacturing, kitchen equipment and other industries. When the output is set to alternating current, it is used to weld aluminum alloy and aluminum alloy materials, for example, bicycle frame welding, indoor and outdoor decoration, etc ... This Taurus TIG200 PI AC/DC inverter welding machine has a reasonable static characteristics and good dynamic performance and they are manufactured in accordance with IEC60974-1, Safety Requirements for Arc.

SOME KEY FEATURES

- Multi-function, digital-controlled welding machines featuring DC TIG, pulsed DC TIG, pulsed AC TIG and MMA welding in one simple designed, light and small size unit.
- A 25% Voltage fluctuation safeguard.
- The secondary inverter technology produces a pure square wave output, excellent arc-force performance and a wide cleaning range, a combination ensuring high quality welding results.
- Easy arc start facilitated by the high-frequency, high-voltage arc ignition circuit and stable, reliable arc performance.
- Pulsed welding with adjustable pulse frequency ensuring high-quality welding on thin metal sheet, dissimilar metals, varying thickness materials and even for double-sided forming welds.
- Overheat protection improves machine reliability.

ACCESSORIES

- Earth clamp cable kit.
- Trolley
- TIG torch.
- Argon flowmeter.

OPTIONAL EXTRAS

- Foot control.
- Water cooling unit.
- Water cooled TIG torch.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-TIG200AC/DC-PI
MODEL	TIG-200PI ACDC
POWER SUPPLY VOLTAGE	220V±25% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 200A
OPEN CIRCUIT VOLTAGE	56V
WELDING RANGE	10 TO 200A (TIG) ▪ 20 TO 180A (MMA)
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	530 x 260 x 440mm ▪ 11.5KG

# TAURUS TIG-AC/DC-300PI WELDER - 380V (AIR-COOLED)



This Taurus TIG300PI AC/DC is a 300A, 380V AC/DC TIG inverter welding machine. With it's high-power IGBT and advanced inverter technology, it has good dynamic characteristics, stable arc, good welding quality and is easy to control, etc... The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. Suitable for welding non-ferrous metal material, like stainless steel, alloy steel, carbon steel, and copper, etc. and can be applied to electric power construction, building construction, hardware products, furniture manufacturing, kitchen equipment and other industries. When the output is set to alternating current, it is used to weld aluminum alloy and aluminum alloy materials, for example, bicycle frame welding, indoor and outdoor decoration, etc ... This Taurus TIG300 PI AC/DC inverter welding machine has a reasonable static characteristics and good dynamic performance and they are manufactured in accordance with IEC60974-1, Safety Requirements for Arc.

## SOME KEY FEATURES

- Multi function, digital controlled welding machines featuring DC TIG, pulsed DC TIG pulsed AC TIG and MMA welding in one simple designed, light and small size unit.
- Multi layer control circuit boards ensure high reliability and a long service life.
- Excellent arc force performance and a wide cleaning range, a combination ensuring high quality welding results.
- Easy arc start facilitated by the high frequency, high voltage arc ignition circuit and stable, reliable arc performance.
- Pulsed welding with adjustable pulse frequency ensuring high quality welding on thin metal sheet, dissimilar metals, varying thickness materials and even for double sided forming welds.
- Foot control available to adjust current freely, improve welding efficiency, reduce welding difficulties and ensure welding quality. Increase current for rapid heating and decrease current to generate a weld seam.
- Overheat protection improves machine reliability.

## ACCESSORIES

- Earth clamp cable kit.
- TIG torch.
- Argon flowmeter.

## OPTIONAL EXTRAS

- Foot control.
- Water cooling unit.
- Water cooled TIG torch.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-TIG300AC/DC-PI
MODEL	TIG-300PI ACDC
POWER SUPPLY VOLTAGE	380V±15% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	40% @ 300A
OPEN CIRCUIT VOLTAGE	70V
WELDING RANGE	10 TO 300A (TIG) ▪ 20 TO 250A (MMA)
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	630 x 315 x 530mm ▪ 22KG





TAURUS TIG300PI AC/DC WELDER - 380V  
(WATER-COOLED)



This Taurus TIG300PI AC/DC is a 300A, 380V AC/DC TIG inverter welding machine. With it's high-power IGBT and advanced inverter technology, it has good dynamic characteristics, stable arc, good welding quality and is easy to control, etc... The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. Suitable for welding non-ferrous metal material, like stainless steel, alloy steel, carbon steel, and copper, etc. and can be applied to electric power construction, building construction, hardware products, furniture manufacturing, kitchen equipment and other industries. When the output is set to alternating current, it is used to weld aluminum alloy and aluminum alloy materials, for example, bicycle frame welding, indoor and outdoor decoration, etc ... This Taurus TIG300 PI AC/DC inverter welding machine has a reasonable static characteristics and good dynamic performance and they are manufactured in accordance with IEC60974-1, Safety Requirements for Arc.

SOME KEY FEATURES

- Multi function, digital controlled welding machines featuring DC TIG, pulsed DC TIG pulsed AC TIG and MMA welding in one simple designed, light and small size unit.
- Multi layer control circuit boards ensure high reliability and a long service life.
- The secondary inverter technology produces a pure square wave output, excellent arc force performance and a wide cleaning range, a combination ensuring high quality welding results.
- Easy arc start facilitated by the high frequency, high voltage arc ignition circuit and stable, reliable arc performance.
- Pulsed welding with adjustable pulse frequency ensuring high quality welding on thin metal sheet, dissimilar metals, varying thickness materials and even for double sided forming welds.
- Foot control available to adjust current freely, improve welding efficiency, reduce welding difficulties and ensure welding quality. Increase current for rapid heating and decrease current to generate a weld seam.
- Overheat protection improves machine reliability.

ACCESSORIES

- Earth clamp cable kit.
- TIG torch.
- Argon Flowmeter.
- Trolley
- Watercooler

OPTIONAL EXTRAS

- Foot control

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-TIG300AC/DC-PI
MODEL	TIG-300PI ACDC
POWER SUPPLY VOLTAGE	380V±15% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	40% @ 300A
OPEN CIRCUIT VOLTAGE	70V
WELDING RANGE	10 TO 300A (TIG) ▪ 20 TO 250A (MMA)
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	630 x 315 x 530mm ▪ 22KG

# TAURUS MIG/MMA-160i PORTABLE WELDER - 220V



This Taurus MIG-160i welding machine is a high performance semi-automatic welding machine for CO2 and mixed gas shielded welding. The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. It can weld low carbon steel, low alloy steel, stainless steel and other components. It uses  $\Phi 0.8$ - $\Phi 1.0$ mm diameter stainless steel welding wire, steel wire, flux-cored wire and other solid wire. It is portable can be applied to fabrication and other industries. This MIG inverter welding machines have reasonable static characteristics and good dynamic performance and they are manufactured in accordance with IEC60974-1, Safety Requirements for Arc Welding Equipment.

### SOME KEY FEATURES

- High 80% heavy duty cycle.
- A 15% Voltage fluctuation safeguard.
- Easy maintenance ensured through simple design, small size, light weight, multilayer control circuit board and proper machine structure.
- A simple operation interface facilitates synergic adjustment and ease of operation.
- High efficiency and duty cycle and a noiseless rectifier.
- The closed loop control system ensures a stable welding voltage when a grid voltage fluctuation and change of arc length occurs. It also ensures excellent arc self regulation and a stable welding process.
- Less spatter and a high metal deposition rate. as well as excellent weld seam appearance and low metal distortion.
- Troubleshooting is minimised by the protection circuit ensuring safety and reliability.

### ACCESSORIES

- Earth clamp cable kit.
- MIG torch.
- Argon flowmeter

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MIG160I
MODEL	MIG160i
POWER SUPPLY VOLTAGE	220V±15% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	80% @ 160A
OPEN CIRCUIT VOLTAGE	60V
WELDING RANGE	30 TO 160A
WIRE DIAMETER	0.8 TO 1.0mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	515 x 312 x 390mm ■ 8KG



# TAURUS MIG/MMA-205T COMPACT WELDER - 220V



This Taurus MIG-205T welding machine is a high performance semi-automatic welding machine for CO2 and mixed gas shielded welding. The advanced power input system will detect and handle a voltage drop or a spike of up to 25%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. It can weld low carbon steel, low alloy steel, stainless steel and other components. It uses  $\Phi 0.8$ - $\Phi 1.0$ mm diameter stainless steel welding wire, steel wire, flux-cored wire and other solid wire. It is portable can be applied to fabrication and other industries. This MIG inverter welding machines have reasonable static characteristics and good dynamic performance and they are manufactured in accordance with IEC60974-1, Safety Requirements for Arc Welding Equipment.

### SOME KEY FEATURES

- Uncomplicated design and appearance. The multi layer control circuit board and solid machine structure facilitate easy maintenance.
- High efficiency and duty cycle and a noiseless rectifier.
- A 25% Voltage fluctuation safeguard.
- A stable welding process and excellent arc self regulation is ensured by the closed loop control system regulating a stable voltage in cases of grid voltage fluctuation.
- Less spatter and a high metal deposition rate. as well as excellent weld seam appearance and low metal distortion.
- Troubleshooting is minimised by the protection circuit ensuring safety and reliability.
- The MMA function allows the use of a variety of different diameter electrodes such as acid, alkaline, stainless steel, and cast iron.

### ACCESSORIES

- Earth clamp cable kit.
- MIG torch.
- Argon flowmeter

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MIG205T
MODEL	MIG205T
POWER SUPPLY VOLTAGE	220V±25% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	35% @ 200A
OPEN CIRCUIT VOLTAGE	56V
WELDING RANGE	50 TO 200A
WIRE DIAMETER	0.8 TO 1.0mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	640 x 370 x 450mm ▪ 18.5KG

TAURUS MIG/MMA-245T COMPACT WELDER - 220V



This Taurus MIG-245T welding machine is a high performance semi-automatic welding machine for CO2 and mixed gas shielded welding. The advanced power input system will detect and handle a voltage drop or a spike of up to 25%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. It can weld low carbon steel, low alloy steel, stainless steel and other components. It uses  $\Phi 0.8$ - $\Phi 1.0$ mm diameter stainless steel welding wire, steel wire, flux-cored wire and other solid wire. It is portable can be applied to fabrication and other industries. This MIG inverter welding machines have reasonable static characteristics and good dynamic performance and they are manufactured in accordance with IEC60974-1, Safety Requirements for Arc Welding Equipment.

SOME KEY FEATURES

- Uncomplicated design and appearance. The multi layer control circuit board and solid machine structure facilitate easy maintenance.
- High efficiency and duty cycle and a noiseless rectifier.
- A 25% Voltage fluctuation safeguard.
- A stable welding process and excellent arc self regulation is ensured by the closed loop control system regulating a stable voltage in cases of grid voltage fluctuation.
- Less spatter and a high metal deposition rate. as well as excellent weld seam appearance and low metal distortion.
- Troubleshooting is minimised by the protection circuit ensuring safety and reliability.
- The MMA function allows the use of a variety of different diameter electrodes such as acid, alkaline, stainless steel, and cast iron.

ACCESSORIES

- Earth clamp cable kit.
- MIG torch.
- Argon flowmeter

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MIG245T
MODEL	MIG245T
POWER SUPPLY VOLTAGE	220V±25% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	35% @ 240A
OPEN CIRCUIT VOLTAGE	58V
WELDING RANGE	50 TO 240A
WIRE DIAMETER	0.8 TO 1.2mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	640 x 370 x 450mm ▪ 18.9KG



# TAURUS MIG/MMA-250TD COMPACT WELDER - 220V



This Taurus MIG-250TD welding machine is a high performance semi-automatic welding machine for CO<sub>2</sub> and mixed gas shielded welding. It can weld low carbon steel, low alloy steel, stainless steel, galvanized sheet, copper and other components. It uses  $\Phi 0.8$ - $\Phi 1.2$ mm diameter stainless steel welding wire, steel wire, gasless wire and other solid wire. The advanced power input system will detect and handle a voltage drop or a spike of up to 25%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. It can be applied to electric power construction, shipbuilding, machinery manufacturing, building construction, fabrication and other industries. This MIG inverter welding machines have reasonable static characteristics and good dynamic performance and they are manufactured in accordance with IEC60974-1, Safety Requirements for Arc Welding Equipment.

## SOME KEY FEATURES

- The undercarriage with cylinder trolley makes it easy to move.
- Precise digital output by digital CPU control system
- All in one energy saving multiple welding functions.
- High efficiency and duty cycle, with no noise from arc welding rectifier.
- The closed-loop control system ensures a more stable welding voltage in the case of grid voltage fluctuation and the change of arc length.
- An excellent arc self-regulation, and a stable welding process.
- Less spatter and high metal deposition rate giving a good welding bead and less deformation.
- MMA function is designed to weld with different diameter electrodes and various electrodes like acid, alkaline, stainless steel, cast iron, etc with excellent performance.
- With perfect protection circuitry and a 25% Voltage fluctuation safeguard. It is safe, reliable and convenient for troubleshooting.
- Reasonable structure, simple layout and easy maintenance.
- The machine meets IP21S protection level to ensure its reliability in harsh environment.

## ACCESSORIES

- Earth clamp cable kit.
- MIG torch.
- Argon flowmeter

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MIG250TD
MODEL	MIG250TD
POWER SUPPLY VOLTAGE	220V $\pm$ 25% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 250A
OPEN CIRCUIT VOLTAGE	52V
WELDING RANGE	50 TO 250A
WIRE DIAMETER	0.8 TO 1.2mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	740 x 375 x 750mm ■ 41KG



# TAURUS MIG/MMA-300TD COMPACT WELDER - 380V



This Taurus MIG-300TD welding machine is a high performance semi-automatic welding machine for CO<sub>2</sub> and mixed gas shielded welding. It can weld low carbon steel, low alloy steel, stainless steel, galvanized sheet, copper and other components. It uses  $\Phi 0.8$ - $\Phi 1.2$ mm diameter stainless steel welding wire, steel wire, gasless wire and other solid wire. The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. It can be applied to electric power construction, shipbuilding, machinery manufacturing, building construction, fabrication and other industries. This MIG inverter welding machines have reasonable static characteristics and good dynamic performance and they are manufactured in accordance with IEC60974-1, Safety Requirements for Arc Welding Equipment.

## SOME KEY FEATURES

- The undercarriage with cylinder trolley makes it easy to move.
- Precise digital output by digital CPU control system
- All in one energy saving multiple welding functions.
- High efficiency and duty cycle, with no noise from arc welding rectifier.
- The closed-loop control system ensures a more stable welding voltage in the case of grid voltage fluctuation and the change of arc length.
- An excellent arc self-regulation, and a stable welding process.
- Less spatter and high metal deposition rate giving a good welding bead and less deformation.
- MMA function is designed to weld with different diameter electrodes and various electrodes like acid, alkaline, stainless steel, cast iron, etc with excellent performance.
- With perfect protection circuitry, it is safe, reliable and convenient for troubleshooting.
- Reasonable structure, simple layout and easy maintenance.
- The machine meets IP21S protection level to ensure its reliability in harsh environment.

## ACCESSORIES

- Earth clamp cable kit.
- MIG torch.
- Argon flowmeter

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MIG300TD
MODEL	MIG300TD
POWER SUPPLY VOLTAGE	380V $\pm$ 15% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 300A
OPEN CIRCUIT VOLTAGE	55V
WELDING RANGE	50 TO 300A
WIRE DIAMETER	0.8 TO 1.2mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	740 x 375 x 750mm ■ 42KG



# TAURUS MIG 280P DOUBLE PULSED COMPACT WELDER - 380V



This Taurus MIG-280P welding machine is a kind of high performance semi-automatic welding machine for CO<sub>2</sub> and mixed gas shielded welding. It can weld aluminum, aluminum alloy, low carbon steel, low alloy steel, stainless steel, galvanized sheet, copper and other components, using  $\Phi 0.8$ - $\Phi 1.6$ mm diameter stainless steel welding wire, steel wire and other solid wire or flux cored wire. The pulse inverter MIG welding machine has reasonable static characteristics and good dynamic performance.

In addition to the features of the inverter power supply above, the welding machine also have good dynamic characteristics, stable arc, good welding quality and is easy to control, etc. They are manufactured in accordance with IEC60974-1, Safety Requirements for Arc Welding Equipment.

## SOME KEY FEATURES

- CPU control system ensures precise, digital output all-in-one multiple welding functions.
- IGBT high frequency soft switching inverter technology is adopted, which ensures stable, reliable working performance and is fast in dynamic response.
- A 15% Voltage fluctuation safeguard.
- In case of grid-voltage fluctuation and change of arc length, the closed-loop control system ensures a stable welding voltage, excellent arc self-regulation and a stable welding process.
- Less spatter and high metal deposition rate.
- Excellent weld seam appearance and low welding distortion.
- Using intense pulse to strike arc that ensures an excellent arc start.
- Smooth wire feed is attained by the adoption of a stable power supply.
- Troubleshooting is ruled out by a perfect protection circuit ensuring a safe, reliable operation.
- Small size, light weight, high efficiency and duty cycle, and no noise from arc welding rectifier.
- Acceptable structure, uncomplicated layout and ease of maintenance.

## ACCESSORIES

- Earth clamp cable kit.
- MIG torch.
- Argon flowmeter

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MIG280P
MODEL	MIG280P
POWER SUPPLY VOLTAGE	380V $\pm$ 15% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 280A
OPEN CIRCUIT VOLTAGE	52V
WELDING RANGE	60 TO 280A
WIRE DIAMETER	0.8 TO 1.6mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	740 x 375 x 750mm ■ 31.5KG



# TAURUS MIG/MMA-350i WELDER WITH SEPARATE WIREFEEDER - 380V



This Taurus MIG350i is a 380v, 500A MIG welding inverter machine. With it's high-power IGBT and advanced inverter technology, it has good dynamic characteristics, stable arc, good welding quality and is easy to control. It's a high performance semi-automatic welding machine for CO2 and mixed gas shielded welding. It can weld low carbon steel, low alloy steel, stainless steel, galvanized sheet, copper and other components, using  $\Phi 0.8$ - $\Phi 1.6$ mm diameter stainless steel welding wire, steel wire and other solid wire. The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation.

This Taurus MIG350i is widely used in industries such as electric power construction, shipbuilding, machinery manufacturing, building construction, fabrication and other industries. It has reasonable static characteristics and good dynamic performance and they are manufactured in accordance with IEC60974-1, Safety Requirements for Arc Welding Equipment.

## SOME KEY FEATURES

- Precise digital output by digital CPU control system,
- All in one multiple welding functions allows for MIG gas welding, MIG flux core welding, DC MMA welding and DC lift TIG welding.
- Easy to move, energy saving, high efficiency and duty cycle with no noise from arc welding rectifier.
- A 15% Voltage fluctuation safeguard.
- The closed-loop control system ensures a more stable welding voltage in the case of grid voltage fluctuation and the change of arc length
- An excellent arc self-regulation, and a stable welding process.
- Less spatter, high metal deposition rate, good welding bead sand less deformation.
- With self-locking function, it can greatly reduce the welder's labour intensity when welding large-scale and long welding seam.
- MMA function is designed to weld various electrodes like acid, alkaline, stainless steel, cast iron, etc with excellent performance.
- Perfect protection circuit makes it safe, reliable and convenient for troubleshooting.
- The machine meets IP21S protection level to ensure its reliability in harsh environment.

## ACCESSORIES

- Earth clamp cable kit.
- MIG torch.
- Argon flowmeter
- Trolley
- Interconnection cable

## OPTIONAL EXTRAS

- Water cooling unit
- Water cooled MIG gun

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MIG350i
MODEL	MIG-350i
POWER SUPPLY VOLTAGE	380V $\pm$ 15% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 350A
OPEN CIRCUIT VOLTAGE	67V
WELDING RANGE	60 TO 350A
WIRE DIAMETER	0.8 TO 1.6mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	710 x 385 x 680mm ■ 18KG (PSU) 565 x 275 x 392mm ■ 28KG (FEEDER)





# TAURUS MIG/MMA-500i WELDER WITH SEPARATE WIREFEEDER - 380V (AIR-COOLED)



This Taurus MIG500i is a 380v, 500A MIG welding inverter machine. With it's high-power IGBT and advanced inverter technology, it has good dynamic characteristics, stable arc, good welding quality and is easy to control. It's a high performance semi-automatic welding machine for CO2 and mixed gas shielded welding. It can weld low carbon steel, low alloy steel, stainless steel, galvanized sheet, copper and other components, using  $\Phi 0.8$ - $\Phi 1.6$ mm diameter stainless steel welding wire, steel wire and other solid wire. The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation.

This Taurus MIG500i is widely used in industries such as electric power construction, shipbuilding, machinery manufacturing, building construction, fabrication and other industries. It has reasonable static characteristics and good dynamic performance and they are manufactured in accordance with IEC60974-1, Safety Requirements for Arc Welding Equipment.

### SOME KEY FEATURES

- Precise digital output by digital CPU control system,
- All in one multiple welding functions allows for MIG gas welding, MIG flux core welding, DC MMA welding and DC lift TIG welding.
- Easy to move, energy saving, high efficiency and duty cycle with no noise from arc welding rectifier.
- A 15% Voltage fluctuation safeguard.
- The closed-loop control system ensures a more stable welding voltage in the case of grid voltage fluctuation and the change of arc length
- An excellent arc self-regulation, and a stable welding process.
- Less spatter, high metal deposition rate, good welding bead sand less deformation.
- With self-locking function, it can greatly reduce the welder's labour intensity when welding large-scale and long welding seam.
- MMA function is designed to weld various electrodes like acid, alkaline, stainless steel, cast iron, etc with excellent performance.
- Perfect protection circuit makes it safe, reliable and convenient for troubleshooting.
- The machine meets IP21S protection level to ensure its reliability in harsh environment.

### ACCESSORIES

- Earth clamp cable kit.
- MIG torch.
- Argon flowmeter
- Trolley
- Interconnection cable

### OPTIONAL EXTRAS

- Water cooling unit
- Water cooled MIG gun

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MIG500I
MODEL	MIG-500I
POWER SUPPLY VOLTAGE	380V $\pm$ 15% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 500A
OPEN CIRCUIT VOLTAGE	70V
WELDING RANGE	60 TO 500A
WIRE DIAMETER	0.8 TO 1.6mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	740 x 405 x 710mm   ▪ 20KG (PSU) 565 x 275 x 392mm   ▪ 37KG (FEEDER)



# TAURUS MIG/MMA-500i WELDER WITH SEPARATE WIREFEEDER - 380V (WATER-COOLED)



This Taurus MIG500i is a 380v, 500A MIG welding inverter machine. With it's high-power IGBT and advanced inverter technology, it has good dynamic characteristics, stable arc, good welding quality and is easy to control. It's a high performance semi-automatic welding machine for CO2 and mixed gas shielded welding. It can weld low carbon steel, low alloy steel, stainless steel, galvanized sheet, copper and other components, using  $\Phi 0.8$ - $\Phi 1.6$ mm diameter stainless steel welding wire, steel wire and other solid wire. The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation.

This Taurus MIG500i is widely used in industries such as electric power construction, shipbuilding, machinery manufacturing, building construction, fabrication and other industries. It has reasonable static characteristics and good dynamic performance and they are manufactured in accordance with IEC60974-1, Safety Requirements for Arc Welding Equipment.

## SOME KEY FEATURES

- Precise digital output by digital CPU control system,
- All in one multiple welding functions allows for MIG gas welding, MIG flux core welding, DC MMA welding and DC lift TIG welding.
- Easy to move, energy saving, high efficiency and duty cycle with no noise from arc welding rectifier.
- A 15% Voltage fluctuation safeguard.
- The closed-loop control system ensures a more stable welding voltage in the case of grid voltage fluctuation and the change of arc length
- An excellent arc self-regulation, and a stable welding process.
- Less spatter, high metal deposition rate, good welding bead sand less deformation.
- With self-locking function, it can greatly reduce the welder's labour intensity when welding large-scale and long welding seam.
- MMA function is designed to weld various electrodes like acid, alkaline, stainless steel, cast iron, etc with excellent performance.
- Perfect protection circuit makes it safe, reliable and convenient for troubleshooting.
- The machine meets IP21S protection level to ensure its reliability in harsh environment.

## ACCESSORIES

- Earth clamp cable kit.
- MIG torch.
- Argon flowmeter
- Trolley
- Watercooler
- Interconnection cable

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MIG500I-WC
MODEL	MIG-500I
POWER SUPPLY VOLTAGE	380V $\pm$ 15% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 500A
OPEN CIRCUIT VOLTAGE	70V
WELDING RANGE	60 TO 500A
WIRE DIAMETER	0.8 TO 1.6mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	740 x 405 x 710mm ■ 20KG (PSU) 565 x 275 x 392mm ■ 37KG (FEEDER)



# TAURUS MIG/MMA-500L-PRO WELDER WITH SEPARATE WIREFEEDER - 380/525V (AIR-COOLED)



This Taurus MIG500LPRO is a 380v/525v dual voltage, 500A MIG welding inverter machine. With it's high-power IGBT and advanced inverter technology, it has good dynamic characteristics, stable arc, good welding quality and is easy to control. It is a high performance semi-automatic welding machine for CO2 and mixed gas shielded welding. It can weld low carbon steel, low alloy steel, stainless steel, galvanized sheet, copper and other components, using  $\Phi 0.8$ - $\Phi 1.6$ mm diameter stainless steel welding wire, steel wire and other solid wire. The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation.

The Taurus MIG500LPRO is widely used in industries such as mining, electric power construction, shipbuilding, machinery manufacturing, building construction, fabrication and other industries. They have reasonable static characteristics and good dynamic performance and they are manufactured in accordance with IEC60974-1, Safety Requirements for Arc Welding Equipment.

### SOME KEY FEATURES

- Simple appearance design, small size, light weight, multilayer control circuit board and proper machine structure ensures easy maintenance.
- The closed-loop control system ensures a more stable welding voltage in the case of grid voltage fluctuation and the change of arc length.
- An excellent arc self-regulation, and a stable welding process.
- A 15% Voltage fluctuation safeguard.
- High efficiency, 80% duty cycle and no noise from arc welding rectifier.
- Simple and easy operational interface with synergic adjustment.
- Less spatter and high metal deposition rate.
- Nice welding bead and less deformation.
- The self-locking function can greatly reduce the welder's labour intensity when welding large-scale and long welding seam.
- MMA function is designed to weld various electrodes like acid, alkaline, stainless steel, cast iron, etc with excellent performance.
- With perfect protection circuit, it is safe, reliable and convenient for troubleshooting.
- The machine meets IP21S protection level to ensure its reliability in harsh environment.

### ACCESSORIES

- Earth clamp cable kit.
- MIG torch.
- Argon flowmeter
- Trolley
- Interconnection cable

### OPTIONAL EXTRAS

- Water cooling unit
- Water cooled MIG gun

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MIG500LPRO
MODEL	MIG500LPRO
POWER SUPPLY VOLTAGE	380/525V $\pm$ 15% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	80% @ 500A
OPEN CIRCUIT VOLTAGE	65V
WELDING RANGE	40 TO 500A
WIRE DIAMETER	1.0 TO 1.6mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	822 x 390 x 632mm   ▪ 67.3KG (PSU) 715 x 340 x 500mm   ▪ 87.4KG (FEEDER)

# TAURUS MIG/MMA-500L-PRO WELDER WITH SEPARATE WIREFEEDER - 380/525V (WATER-COOLED)



This Taurus MIG500LPRO is a 380v/525v dual voltage, 500A MIG welding inverter machine. With it's high-power IGBT and advanced inverter technology, it has good dynamic characteristics, stable arc, good welding quality and is easy to control. It is a high performance semi-automatic welding machine for CO2 and mixed gas shielded welding. It can weld low carbon steel, low alloy steel, stainless steel, galvanized sheet, copper and other components, using  $\Phi 0.8$ - $\Phi 1.6$ mm diameter stainless steel welding wire, steel wire and other solid wire. The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation.

The Taurus MIG500LPRO is widely used in industries such as mining, electric power construction, shipbuilding, machinery manufacturing, building construction, fabrication and other industries. They have reasonable static characteristics and good dynamic performance and they are manufactured in accordance with IEC60974-1, Safety Requirements for Arc Welding Equipment.

### SOME KEY FEATURES

- Simple appearance design, small size, light weight, multilayer control circuit board and proper machine structure ensures easy maintenance.
- The closed-loop control system ensures a more stable welding voltage in the case of grid voltage fluctuation and the change of arc length.
- An excellent arc self-regulation, and a stable welding process.
- A 15% Voltage fluctuation safeguard.
- High efficiency, 80% duty cycle and no noise from arc welding rectifier.
- Simple and easy operational interface with synergic adjustment.
- Less spatter and high metal deposition rate.
- Nice welding bead and less deformation.
- The self-locking function can greatly reduce the welder's labour intensity when welding large-scale and long welding seam.
- MMA function is designed to weld various electrodes like acid, alkaline, stainless steel, cast iron, etc with excellent performance.
- With perfect protection circuit, it is safe, reliable and convenient for troubleshooting.
- The machine meets IP21S protection level to ensure its reliability in harsh environment.

### ACCESSORIES

- Earth clamp cable kit.
- MIG torch.
- Argon flowmeter
- Trolley
- Interconnection cable
- Watercooler

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MIG500LPRO-WC
MODEL	MIG500LPRO
POWER SUPPLY VOLTAGE	380/525V $\pm$ 15% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	80% @ 500A
OPEN CIRCUIT VOLTAGE	65V
WELDING RANGE	40 TO 500A
WIRE DIAMETER	1.0 TO 1.6mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	822 x 390 x 632mm ■ 67.3KG (PSU) 715 x 340 x 500mm ■ 87.4KG (FEEDER)





# TAURUS MIG/MMA-500 DOUBLE PULSED WELDER WITH SEPARATE FEEDER - 380V (AIR-COOLED)



This Taurus MIG-500PLUS is high-performance, inverter pulse MIG machine is designed for Argon or CO<sub>2</sub> and mixed-gas welding on aluminium, aluminium alloys, low-carbon steel, low-alloy steel, stainless steel and copper. Aluminium welding wire (4043/5356), carbon steel (ER50-6/ER70S-6) wire and stainless steel wire as well as other solid or flux-cored wires can be used. The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation.

The machine offers good dynamic performance and static characteristics. Like other machines in this series, it meets the GB15579.1-2013 safety requirements for arc welding equipment and the JB/T7824-1995 requirements for inverter arc-welding rectifiers. It also complies with the GB/T10249-1998 standards of electric welding machines.

### SOME KEY FEATURES

- Multiple functions combined in one machine. Digital ARM+MCU control system ensuring precise digital output.
- Good reliability combined with rapid dynamic response ensured by the IGBT high-frequency, soft-switch inverter technology.
- A 10% Voltage fluctuation safeguard.
- The closed-loop control system guarantees a stable welding voltage in cases of grid-voltage and arc-length fluctuation. Self-adjustment of arc length and a stable welding process are remarkable characteristics.
- Negligible splatter and a high metal deposition rate.
- Good quality welding seam with very small deformation.
- High arc-ignition success rate with a strong pulse-start arc.
- Smooth wire feed assisted by a stable power supply.
- Up to 10 sets of stored welding programs allow saving in operating time.
- A special four-step function suits the welding of metals with good thermal conductivity while offering perfect welding quality.
- Various interfaces available for connecting welding robots and other welding machines.
- Safe and reliable protection circuit and easy system for fault finding.
- High efficiency and energy saving, high load duration and no-noise rectifier.
- Reasonable structure, simple layout and easy maintenance.

### ACCESSORIES

- Earth clamp cable kit.
- MIG torch.
- Argon flowmeter
- Trolley
- Interconnection cable

### OPTIONAL EXTRAS

- Water cooling unit
- Water cooled MIG gun

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MIG500PLUS
MODEL	MIG-500PLUS
POWER SUPPLY VOLTAGE	380V±10% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 500A
OPEN CIRCUIT VOLTAGE	65V
WELDING RANGE	30 TO 500A
WIRE DIAMETER	0.8 TO 1.6mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	1030 x 550 x 850mm   ▪ 79KG (PSU) 750 x 360 x 550mm   ▪ 24KG (FEEDER)



# TAURUS MIG/MMA-500 DOUBLE PULSED WELDER WITH SEPARATE FEEDER - 380V (WATER-COOLED)



This Taurus MIG-500PLUS is high-performance, inverter pulse MIG machine is designed for Argon or CO<sub>2</sub> and mixed-gas welding on aluminium, aluminium alloys, low-carbon steel, low-alloy steel, stainless steel and copper. Aluminium welding wire (4043/5356), carbon steel (ER50-6/ER70S-6) wire and stainless steel wire as well as other solid or flux-cored wires can be used. The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation.

The machine offers good dynamic performance and static characteristics. Like other machines in this series, it meets the GB15579.1-2013 safety requirements for arc welding equipment and the JB/T7824-1995 requirements for inverter arc-welding rectifiers. It also complies with the GB/T10249-1998 standards of electric welding machines.

### SOME KEY FEATURES

- Multiple functions combined in one machine. Digital ARM+MCU control system ensuring precise digital output.
- Good reliability combined with rapid dynamic response ensured by the IGBT high-frequency, soft-switch inverter technology.
- A 10% Voltage fluctuation safeguard.
- The closed-loop control system guarantees a stable welding voltage in cases of grid-voltage and arc-length fluctuation. Self-adjustment of arc length and a stable welding process are remarkable characteristics.
- Negligible splatter and a high metal deposition rate.
- Good quality welding seam with very small deformation.
- High arc-ignition success rate with a strong pulse-start arc.
- Smooth wire feed assisted by a stable power supply.
- Up to 10 sets of stored welding programs allow saving in operating time.
- A special four-step function suits the welding of metals with good thermal conductivity while offering perfect welding quality.
- Various interfaces available for connecting welding robots and other welding machines.
- Safe and reliable protection circuit and easy system for fault finding.
- High efficiency and energy saving, high load duration and no-noise rectifier.
- Reasonable structure, simple layout and easy maintenance.

### ACCESSORIES

- Earth clamp cable kit.
- MIG torch.
- Argon flowmeter
- Trolley
- Interconnection cable
- Watercooler

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-MIG500PLUS-WC
MODEL	MIG-500PLUS
POWER SUPPLY VOLTAGE	380V±10% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 500A
OPEN CIRCUIT VOLTAGE	65V
WELDING RANGE	30 TO 500A
WIRE DIAMETER	0.8 TO 1.6mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	1030 x 550 x 850mm   ▪ 79KG (PSU) 750 x 360 x 550mm   ▪ 24KG (FEEDER)

# TAURUS HW-450 LASER MIG WELDING MACHINE



Based on the self-developed "small core diameter" laser technology, the Taurus STR-HW450 handheld laser MIG welding machine adapts a new dual circuit refrigerant direct cooling system and integrated structural Design, which allows for continuous 24x7 welding. This welding machine is a highly effective, large penetration, high energy-efficiency, and high convenience welding machine. The Taurus STR-HW450 welding machines can weld various metal materials such as aluminum, stainless steel, carbon steel, galvanized sheet, brass, etc. The adaptive repair function can regularly run a machine status self check, perform parameter calibration and ensure continuous reliable use throughout the life cycle, without compromising the welding effectiveness.

### SOME KEY FEATURES

- Produces aesthetically pleasing welds with good penetration.
- Long life cycle and long reliable up time.
- Delivers good performance, including fast working speed and high efficiency.
- Can be operated for twenty four hours per day, seven days a week.
- Designed to operate in high(60°C) and low temperatures(-20°C).
- Easy to operate due to intelligent features.
- The ergonomic design torch is comfortable and easy to grip.
- 8-fold protection designs ensures extra safety.
- Efficient, energy-saving and environmentally friendly.
- Protects the workers health from a dust-free operation.
- Welding modes are spot welding, continuous spot welding, pulse welding and continuous welding.

### ACCESSORIES

- Integrated armored cable & welding torch.
- Wire feeder
- Argon flowmeter

SPECIFICATION	DESCRIPTION
PRODUCT CODE	STR-HW-450
MODEL	HW-450
POWER SUPPLY VOLTAGE	220V SINGLE PHASE
LASER POWER	1200W
PEAK POWER	2000W
GUIDE BEAM	CLASS 1 RED GUIDE BEAM
WIRE DIAMETER	0.8 TO 1.6mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	673 x 605 x 310mm    43KG



# TAURUS CUT-40H PLASMA CUTTER - 220V



## ACCESSORIES

- Earth clamp cable kit.
- PT31 plasma torch.

This Taurus CUT40H is a 40A, 220v single phase air plasma cutting machine. It produces a stronger, more concentrated and stable electric arc. The temperature of the arc can reach a high ionization state, forming a powerful plasma arc which allows metal to be cut quickly by plasma arc. The heat affected zone is reduced as much as possible and the energy is used more effectively giving a super smooth cutting surface. It can be used for cutting various metal materials such as stainless steel, aluminium, copper, cast iron and carbon steel. The advanced power input system will detect and handle a voltage drop or a spike of up to 25%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation.

The Taurus CUT40H features a fast cutting speed, narrow cutting seam, clean cut, small heat affected zone, low deformation, simple operation and outstanding energy saving effect. It's suitable for manufacturing, installation and maintenance of various machinery and metal structures, cutting thin plates, opening holes, patching, beveling, cutting pipes and other cutting processes. It is widely used in aerial work, outdoor work, indoor and outdoor decoration, shipyard steel plate, petrochemical equipment, construction site and other industries. The Taurus plasma cutting machines are manufactured in accordance with IEC60974-1, Safety Requirements for Arc Welding Equipment.

### SOME KEY FEATURES

- Reliable overheat, over-current and over-voltage protection.
- A 25% Voltage fluctuation safeguard.
- Easy arc striking and stable arc allow easy arc control.
- Accurate preset current ensures a clean cut, energy-saving performance on workpieces of differing thickness.
- Adjustable Pre-flow checking and post-flow cooling.
- Narrow cutting seam, clean cutting edge and no deformation.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-CUT40H
MODEL	CUT-40H
POWER SUPPLY VOLTAGE	220V±25% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	35% @ 40A
OPEN CIRCUIT VOLTAGE	231V
OUTPUT CURRENT RANGE	10 TO 40A
MAXIMUM QUALITY CUT THICKNESS (MILD STEEL)	8mm
SEVERANCE CUT THICKNESS (MILD STEEL)	12mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	455 x 270 x 345mm ▪ 6.6KG



# TAURUS CUT-40PA PLASMA CUTTER - 220V



This Taurus CUT40PA is a 40A, 220v single phase air plasma cutting machine. It produces a stronger, more concentrated and stable electric arc. The temperature of the arc can reach a high ionization state, forming a powerful plasma arc which allows metal to be cut quickly by plasma arc. The heat affected zone is reduced as much as possible and the energy is used more effectively giving a super smooth cutting surface. It can be used for cutting various metal materials such as stainless steel, aluminium, copper, cast iron and carbon steel. The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation.

The Taurus CUT4PA features a fast cutting speed, narrow cutting seam, clean cut, small heat affected zone, low deformation, simple operation and outstanding energy saving effect. It's suitable for manufacturing, installation and maintenance of various machinery and metal structures, cutting thin plates, opening holes, patching, beveling, cutting pipes and other cutting processes. It is widely used in aerial work, outdoor work, indoor and outdoor decoration, shipyard steel plate, petrochemical equipment, construction site and other industries. The Taurus plasma cutting machines are manufactured in accordance with IEC60974-1, Safety Requirements for Arc Welding Equipment.

## SOME KEY FEATURES

- Small size, light weight, extended cutting time, easy to move and especially suited for applications requiring mobility and working at elevated areas.
- Integrated filtered pressure regulator and water trap.
- Reliable overheat, over-current and over-voltage protection.
- A 15% Voltage fluctuation safeguard.
- Easy arc striking and stable arc allow easy arc control.
- Accurate preset current ensures a clean cut, energy-saving performance on workpieces of differing thickness.
- Narrow cutting seam, clean cutting edge and no deformation.
- The IP21S grade ensures reliability even under harsh environmental conditions.

## ACCESSORIES

- Earth clamp cable kit.
- PT31 plasma torch.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-CUT40PA
MODEL	CUT-40PA
POWER SUPPLY VOLTAGE	220V±15% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 40A
OPEN CIRCUIT VOLTAGE	270V
OUTPUT CURRENT RANGE	15 TO 40A
MAXIMUM QUALITY CUT THICKNESS (MILD STEEL)	8mm
SEVERANCE CUT THICKNESS (MILD STEEL)	12mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	422 x 156 x 275mm ■ 8.13KG



# TAURUS CUT-40D PLASMA CUTTER WITH BUILT-IN COMPRESSOR - 220V



## ACCESSORIES

- Earth clamp cable kit.
- P60(AG60) plasma torch.

This Taurus CUT40D is a 40A, 220v single phase air plasma cutting machine with a built-in air compressor. It produces a stronger, more concentrated and stable electric arc. The temperature of the arc can reach a high ionization state, forming a powerful plasma arc which allows metal to be cut quickly by plasma arc. The heat affected zone is reduced as much as possible and the energy is used more effectively giving a super smooth cutting surface. It can be used for cutting various metal materials such as stainless steel, aluminium, copper, cast iron and carbon steel. The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation.

The Taurus CUT40D features a fast cutting speed, narrow cutting seam, clean cut, small heat affected zone, low deformation, simple operation and outstanding energy saving effect. It's suitable for manufacturing, installation and maintenance of various machinery and metal structures, cutting thin plates, opening holes, patching, beveling, cutting pipes and other cutting processes. It is widely used in aerial work, outdoor work, indoor and outdoor decoration, shipyard steel plate, petrochemical equipment, construction site and other industries. The Taurus plasma cutting machines are manufactured in accordance with IEC60974-1, Safety Requirements for Arc Welding Equipment.

## SOME KEY FEATURES

- Simple-design appearance, portable in size, high reliability and more durable.
- A 15% Voltage fluctuation safeguard.
- Built-in reliable high-power air compressor, no additional gas source is required, stable gas output after long-term use.
- A dual options of a built-in air compressor and an external air source which can be switched quickly, and may be more suitable for long-time working environment.
- Reliable cutting machine with overheat, over-current and over-voltage protection functions.
- The arc starting system adopts the principle of high frequency oscillation which is easy to start arc and with high success rate of arc starting.
- Gas detection can detect whether the gas volume is sufficient before cutting to ensure smooth cutting process.
- Accurate cutting current preset ensures good cutting effect and energy saving effect making it more convenient to operate and suitable for cutting work-pieces with different thicknesses.
- Due to the IP21S protection grade, this cutting machine works reliably even under harsh environmental conditions.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-CUT40D
MODEL	CUT40D AIR
POWER SUPPLY VOLTAGE	220V±15% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 40A
OPEN CIRCUIT VOLTAGE	65V
OUTPUT CURRENT RANGE	20 TO 40A
MAXIMUM QUALITY CUT THICKNESS (MILD STEEL)	6mm (BUILT-IN COMPRESSOR) ▪ 8mm (EXTERNAL COMPRESSOR)
SEVERANCE CUT THICKNESS (MILD STEEL)	12mm (BUILT-IN COMPRESSOR) ▪ 16mm (EXTERNAL COMPRESSOR)
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	530 x 325 x 400mm ▪ 20.5KG



# TAURUS CUT70i PLASMA CUTTER - 380V



## ACCESSORIES

- Earth clamp cable kit.
- P80 plasma torch.

This Taurus CUT-70i is a 70A, 380v three phase air plasma cutting machine. It produces a stronger, more concentrated and stable electric arc. The temperature of the arc can reach a high ionization state, forming a powerful plasma arc which allows metal to be cut quickly by plasma arc. The heat affected zone is reduced as much as possible and the energy is used more effectively giving a super smooth cutting surface. It can be used for cutting various metal materials such as stainless steel, aluminium, copper, cast iron and carbon steel. The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation.

The Taurus CUT-70i features a fast cutting speed, narrow cutting seam, clean cut, small heat affected zone, low deformation, simple operation and outstanding energy saving effect. It's suitable for manufacturing, installation and maintenance of various machinery and metal structures, cutting thin plates, opening holes, patching, beveling, cutting pipes and other cutting processes. It is widely used in aerial work, outdoor work, indoor and outdoor decoration, shipyard steel plate, petrochemical equipment, construction site and other industries. The Taurus plasma cutting machines are manufactured in accordance with IEC60974-1, Safety Requirements for Arc Welding Equipment.

## SOME KEY FEATURES

- Various protection such as moisture-proof, dust-proof, electromagnetic-interference-proof and, effective electronic protection.
- A 15% Voltage fluctuation safeguard.
- Arc ignition system adopt principle of high frequency oscillation with characteristic of pilot arc, easy starting arc and high success rate of arc ignition.
- Adjustable post gas flow time base on the actual need and adjust the dead time to save the energy.
- Adopts a non-contact high-frequency arc starting pilot arc function, excellent instant arc starting performance and a high arc starting success rate.
- Gas detection can detect whether the gas volume is sufficient before cutting to ensure smooth cutting process.
- Adjustable Pre-flow and post-flow cooling
- Accurate cutting current preset ensures good cutting effect and energy saving effect with more convenient to operate and suitable for cutting work-pieces with different thicknesses, narrow cutting seam, clean cutting edge and anti-deformation.
- This is a reliable cutting machine with overheat, over-current and over-voltage protection functions.
- Due to the IP21S protection grade, this cutting machine works reliably even Under harsh environmental conditions.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-CUT-70I
MODEL	CUT-70I
POWER SUPPLY VOLTAGE	380V±15% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 70A
OPEN CIRCUIT VOLTAGE	285V
OUTPUT CURRENT RANGE	30 TO 70A
MAXIMUM QUALITY CUT THICKNESS (MILD STEEL)	20mm
SEVERANCE CUT THICKNESS (MILD STEEL)	30mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	595 x 315 x 530mm    30KG

# TAURUS CUT-70D PLASMA CUTTER WITH BUILT-IN COMPRESSOR - 220V/380V



The Taurus Cut 70A with built-in compressor inverts the 50Hz power supply to a high-frequency, high-voltage power supply of up to 20KHz. The inversion process is facilitated by a powerful IGBT device followed by step-down rectification and pulse-width modulation (PWM) technology producing a high-power DC output suitable for cutting. The advanced inverter technology allows the construction of a smaller volume and light-weight, stable and reliable transformer with a 30% improved efficiency. This series of plasma cutting machines produce a concentrated, stable, powerful and fast-cutting arc at an ionized state of 10000-15000°C. The result is a super-smooth cutting surface on a reduced heat affected area which facilitates further processing.

The Taurus Cut 70A can be used for cutting various metals including stainless steel, aluminium, copper, cast iron and carbon steel. A narrow and clean-cut seam is produced with less effort and low deformation. The machines are suitable for use in the manufacturing industry, installation and maintenance, plate cutting, cutting holes, patching, beveling, pipe cutting and various other metal cutting applications. The machines in this series are manufactured in accordance with IEC60974-1<Arc Welding Equipment-Part 1: Welding Power Sources>, Safety Requirements for Arc Welding Equipment.

## SOME KEY FEATURES

- Built-in, high-power air compressor with stable air output suitable for extended use. External air source option can be switched quickly and may be more suited for an extended cutting operation.
- A 25% Voltage fluctuation safeguard.
- Phase-loss detection technology.
- Adopts non-contact, high-frequency arc starting as well as a pilot-arc function. Excellent instant-arc starting performance and a high success rate of arc starting.
- Air-flow detection ensures that a sufficient volume is delivered prior to starting the cutting process..
- Accurate preset cutting currents ensure energy efficiency and allow for cutting of materials with varying thickness.
- Narrow cutting seam, clean cutting edge and reduced deformation.
- The MMA function provides for welding with a variety of electrodes such as acid, alkaline and stainless steel and all in diameters ranging from 2.0mm to 5.0mm.

## ACCESSORIES

- Earth clamp cable kit.
- P80 plasma torch.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-CUT70D
MODEL	CUT-70D
POWER SUPPLY VOLTAGE	220V±25% SINGLE PHASE & 380V±25% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 60A (220V) ▪ 60% @ 70A
OPEN CIRCUIT VOLTAGE	268V
OUTPUT CURRENT RANGE	30 TO 60A(220V) ▪ 30 TO 70A(380V)
MAXIMUM QUALITY CUT THICKNESS (MILD STEEL)	20mm
SEVERANCE CUT THICKNESS (MILD STEEL)	30mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	710 x 385 x 680mm ▪ 45.8KG





# TAURUS CUT120i PLASMA CUTTER - 380V



This Taurus CUT120i is a 120A, 380v three phase air plasma cutting machine. It produces a stronger, more concentrated and stable electric arc. The temperature of the arc can reach a high ionization state, forming a powerful plasma arc which allows metal to be cut quickly by plasma arc. The heat affected zone is reduced as much as possible and the energy is used more effectively giving a super smooth cutting surface. It can be used for cutting various metal materials such as stainless steel, aluminium, copper, cast iron and carbon steel. The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation.

The Taurus CUT120i features a fast cutting speed, narrow cutting seam, clean cut, small heat affected zone, low deformation, simple operation and outstanding energy saving effect. It's suitable for manufacturing, installation and maintenance of various machinery and metal structures, cutting thin plates, opening holes, patching, beveling, cutting pipes and other cutting processes. It is widely used in aerial work, outdoor work, indoor and outdoor decoration, shipyard steel plate, petrochemical equipment, construction site and other industries. The Taurus plasma cutting machines are manufactured in accordance with IEC60974-1, Safety Requirements for Arc Welding Equipment.

## SOME KEY FEATURES

- Various protection such as moisture-proof, dust-proof, electromagnetic-interference-proof and, effective electronic protection.
- A 15% Voltage fluctuation safeguard.
- Arc ignition system adopt principle of high frequency oscillation with characteristic of pilot arc, easy starting arc and high success rate of arc ignition.
- Adjustable post gas flow time base on the actual need and adjust the dead time to save the energy.
- Adopts a non-contact high-frequency arc starting pilot arc function, excellent instant arc starting performance and a high arc starting success rate.
- Gas detection can detect whether the gas volume is sufficient before cutting to ensure smooth cutting process.
- Adjustable Pre-flow and post-flow cooling
- Accurate cutting current preset ensures good cutting effect and energy saving effect with more convenient to operate and suitable for cutting work-pieces with different thicknesses, narrow cutting seam, clean cutting edge and anti-deformation.
- This is a reliable cutting machine with overheat, over-current and over-voltage protection functions.
- Due to the IP21S protection grade, this cutting machine works reliably even Under harsh environmental conditions.

## ACCESSORIES

- Earth clamp cable kit.
- A141 plasma torch.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	TA-CUT-120I
MODEL	CUT-120I
POWER SUPPLY VOLTAGE	380V±15% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 120A
OPEN CIRCUIT VOLTAGE	300V
OUTPUT CURRENT RANGE	30 TO 120A
MAXIMUM QUALITY CUT THICKNESS (MILD STEEL)	30mm
SEVERANCE CUT THICKNESS (MILD STEEL)	50mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	710 x 385 x 630mm ▪ 41KG



# iWELD HANDHELD MMA-120X WELDER - 220V



The iWELD MMA-120X is a 120A single phase, 220V handheld stick electrode welding machine which is designed on and manufactured to the latest digital inverter technology. It is compact, portable, light weight allowing for easy mobility and use. The MMA-120X inverter machine ensures a clean, high quality weld and excels in basic and rutile electrode welding. The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. Professional and DIY users can experience the built-in characteristics of anti-stick, hot-start and arc force.

ACCESSORIES	SOME KEY FEATURES
<ul style="list-style-type: none"><li>• Earth clamp cable kit</li><li>• Mini chipping hammer with wire brush</li></ul>	<ul style="list-style-type: none"><li>• IGBT system.</li><li>• 15% Voltage fluctuation safeguard.</li><li>• Easy arc ignition.</li><li>• Soft stable arc.</li><li>• Exotic material welding.</li><li>• Energy saving characteristics.</li></ul>
OPTIONAL EXTRAS	

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IW-MMA-120X
MODEL	MMA-120X
RATED POWER SUPPLY INPUT	220V±15% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	20% @ 120A
OPEN CIRCUIT VOLTAGE	65V
WELDING CURRENT RANGE	20 - 120A
ELECTRODE SIZE	1.2 - 3.2mm
DIMENSIONS(mm) AND NET WEIGHT(kg)	200 x 85 x 155mm ■ 3.2kg





The iWeld MMA-121VRD is a 120A single phase, 220V stick electrode welding machine which is designed on and manufactured to the latest digital inverter technology. It is compact, light weight with a single PCB allowing for easy mobility. The MMA-121VRD inverter machine ensures a clean, high quality weld and excels in basic and rutile electrode welding. The advanced power input system will detect and handle a voltage drop or a spike of up to 25%. Professional and DIY users can experience the built-in characteristics of anti-stick, hot-start and arc force. The VRD is an added safety feature keeping the output voltage low when the machine is not in use.

ACCESSORIES

- Earth clamp cable kit
- Electrode holder cable kit
- Plastic carry box
- Mini chipping hammer with wire brush

OPTIONAL EXTRAS

- TIG torch and argon flowmeter

SOME KEY FEATURES

- Permanent voltage reduction device (VRD).
- 25% Voltage fluctuation safeguard.
- IGBT system.
- MMA and lift TIG.
- Easy arc ignition.
- Soft stable arc.
- Exotic material welding.
- Energy saving characteristics.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IWVRD121
MODEL	MMA-121 VRD
RATED POWER SUPPLY INPUT	220V±25% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 120A
OPEN CIRCUIT VOLTAGE	56V
WELDING CURRENT RANGE	20 - 120A
ELECTRODE SIZE	2.0 - 3.2mm
DIMENSIONS(mm) AND NET WEIGHT(kg)	230 x 100 x 155mm ▪ 1.9kg





The iWeld MMA-140 is a 140A single phase, 220V stick electrode welding machine which is designed on and manufactured to the latest digital inverter technology. It is compact, light weight with a single PCB allowing for easy mobility. The MMA-140 inverter machine ensures a clean, high quality weld and excels in basic and rutile electrode welding. The advanced power input system will detect and handle a voltage drop or a spike of up to 25%. Professional and DIY users can experience the built-in characteristics of anti-stick, hot-start and arc force.

ACCESSORIES

- Earth clamp cable kit
- Electrode holder cable kit
- Mini chipping hammer with wire brush

OPTIONAL EXTRAS

- TIG torch and argon flowmeter

SOME KEY FEATURES

- IGBT system.
- 25% Voltage fluctuation safeguard.
- Easy arc ignition.
- Soft stable arc.
- Exotic material welding.
- Energy saving characteristics.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IW140
MODEL	MMA-140
RATED POWER SUPPLY INPUT	220V±25% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 140A
OPEN CIRCUIT VOLTAGE	65V
WELDING CURRENT RANGE	20 - 140A
ELECTRODE SIZE	1.2 - 3.2mm
DIMENSIONS(mm) AND NET WEIGHT(kg)	200 x 85 x 155mm ▪ 3.2kg





The iWeld MMA-160 is a 160A single phase, 220V stick electrode welding machine which is designed on and manufactured to the latest digital inverter technology. It is compact, light weight with a single PCB allowing for easy mobility. The MMA-160 inverter machine ensures a clean, high quality weld and excels in basic and rutile electrode welding. The advanced power input system will detect and handle a voltage drop or a spike of up to 25%. Professional and DIY users can experience the built-in characteristics of anti-stick, hot-start and arc force.

ACCESSORIES

- Earth clamp cable kit
- Electrode holder cable kit
- Plastic carry box
- Mini chipping hammer with wire brush

OPTIONAL EXTRAS

- TIG torch and argon flowmeter

SOME KEY FEATURES

- IGBT system.
- 25% Voltage fluctuation safeguard.
- MMA and lift TIG.
- Easy arc ignition.
- Soft stable arc.
- Exotic material welding.
- Energy saving characteristics.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IW160
MODEL	MMA-160
RATED POWER SUPPLY INPUT	220V±25% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 160A
OPEN CIRCUIT VOLTAGE	62V
WELDING CURRENT RANGE	20 - 160A
ELECTRODE SIZE	2.0 - 4.0mm
DIMENSIONS(mm) AND NET WEIGHT(kg)	400 x 250 x 380mm ■ 4.8kg



The iWeld MMA-201 VRD is a 200A single phase, 220V stick electrode welding machine which is designed on and manufactured to the latest digital inverter technology. It is compact, light weight with a single PCB allowing for easy mobility. The MMA-201 inverter machine ensures a clean, high quality weld and excels in basic and rutile electrode welding. Professional and DIY users can experience the built-in characteristics of anti-stick, hot-start and arc force. The VRD is an added safety function keeping the output voltage low when the machine is not in use.

ACCESSORIES	SOME KEY FEATURES
<ul style="list-style-type: none"><li>• Earth clamp cable kit</li><li>• Electrode holder cable kit</li><li>• Plastic carry box</li></ul>	<ul style="list-style-type: none"><li>• IGBT system.</li><li>• MMA and lift TIG.</li><li>• Easy arc ignition and soft stable arc.</li><li>• Exotic material welding.</li><li>• Energy saving characteristics.</li><li>• Digital display.</li><li>• Control panel work-light function.</li><li>• Voltage reduction device (VRD).</li></ul>
OPTIONAL EXTRAS	
<ul style="list-style-type: none"><li>• TIG torch and argon flowmeter</li></ul>	

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IWVRD201
MODEL	MMA-201 VRD
RATED POWER SUPPLY INPUT	220V±15% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 200A
OPEN CIRCUIT VOLTAGE	WITHOUT VRD (55V) ▪ WITH VRD (≤ 15V)
WELDING CURRENT RANGE	20 - 200A
ELECTRODE SIZE	2.0 - 4.0mm
DIMENSIONS(mm) AND NET WEIGHT(kg)	400 x 250 x 380mm ▪ 4.8kg



The iWeld MMA-251 VRD is a 250A single phase, 220V stick electrode welding machine which is designed on and manufactured to the latest digital inverter technology. It is compact, light weight with a single PCB allowing for easy mobility. The MMA-251 inverter machine ensures a clean, high quality weld and excels in basic and rutile electrode welding. Professional and DIY users can experience the built-in characteristics of anti-stick, hot-start and arc force. The VRD is an added safety function keeping the output voltage low when the machine is not in use.

ACCESSORIES

- Earth clamp cable kit
- Electrode holder cable kit
- Plastic carry box
- Mini chipping hammer with wire brush

SOME KEY FEATURES

- IGBT system.
- MMA and lift TIG.
- Easy arc ignition and soft stable arc.
- Exotic material welding.
- Energy saving characteristics.
- Digital display.
- Control panel work-light function.
- Voltage reduction device (VRD).

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IWVRD251
MODEL	MMA-251 VRD
RATED POWER SUPPLY INPUT	220V±15% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 250A
OPEN CIRCUIT VOLTAGE	WITHOUT VRD (55V) ▪ WITH VRD (≤ 15V)
WELDING CURRENT RANGE	20 - 250A
ELECTRODE SIZE	2.0 - 5.0mm
DIMENSIONS(mm) AND NET WEIGHT(kg)	400 x 250 x 380mm ▪ 5.8kg

# iWELD MMA-400S 320A WELDER - 380/525V



The iWELD MMA-400S is a 320A 380/525V three phase, dual voltage, stick electrode welding machine which is designed on and manufactured to the latest digital inverter technology. It is compact, light weight with a single PCB allowing for easy mobility. The MMA-400S inverter machine ensures a clean, high quality weld and excels in basic and rutile electrode welding. Professional and DIY users can experience the built-in characteristics of anti-stick, hot-start and arc force. The VRD is an added safety function keeping the output voltage low when the machine is not in use.

ACCESSORIES

- Earth clamp cable kit.
- Electrode holder cable kit.

OPTIONAL EXTRAS

- TIG torch and argon flowmeter.

SOME KEY FEATURES

- IGBT system.
- MMA and lift TIG.
- Easy arc ignition.
- Soft stable arc.
- Exotic material welding.
- Overheat protection.
- Digital display.
- Voltage reduction device (VRD).

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IW-MMA400S
MODEL	MMA400S
RATED POWER SUPPLY INPUT	380V/525V THREE PHASE DUAL VOLTAGE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 320A
OPEN CIRCUIT VOLTAGE	WITHOUT VRD (68V) ▪ WITH VRD (≤ 15V)
WELDING CURRENT RANGE	20 - 320A
ELECTRODE SIZE	2.0 - 6.0mm
DIMENSIONS(MM) AND NET WEIGHT(KG)	480 x 233 x 355mm ▪ 12KG





# iWELD MMA-401VRD WELDER - 380V



The iWELD MMA-401 is a 400A three phase, 380V high duty cycle stick electrode welding machine which is designed on and manufactured to the latest digital inverter technology. It is compact, light weight with a single PCB allowing for easy mobility. The MMA-401 inverter machine ensures a clean, high quality weld and excels in basic and rutile electrode welding. Professional and DIY users can experience the built-in characteristics of anti-stick, hot-start and arc force. The VRD is an added safety function keeping the output voltage low when the machine is not in use.

### ACCESSORIES

- Earth clamp cable kit.
- Electrode holder cable kit.

### OPTIONAL EXTRAS

- TIG torch and argon flowmeter.

### SOME KEY FEATURES

- IGBT system.
- MMA and lift TIG.
- Easy arc ignition.
- Soft stable arc.
- Exotic material welding.
- Energy saving characteristics.
- Digital display.
- Voltage reduction device (VRD).

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IWVRD401
MODEL	MMA-401 VRD
RATED POWER SUPPLY INPUT	380V±15% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	80% @ 400A
OPEN CIRCUIT VOLTAGE	WITHOUT VRD (62V) ▪ WITH VRD (≤ 15V)
WELDING CURRENT RANGE	20 - 400A
ELECTRODE SIZE	2.0 - 6.0mm
DIMENSIONS(MM) AND NET WEIGHT(KG)	545 x 295 x 485mm ▪ 28KG



The iWELD TIG DC 180A inverter is a robust, generator-friendly machine designed and manufactured for operation under demanding industrial conditions. The advanced power input system will detect and handle a voltage drop or a spike of up to 25%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. The high frequency ignition ensure professional ease of welding, high-quality welds and creates a very soft start arc and maximum arc control. This obviates the need to touch the workpiece with the tungsten electrode. This offers great advantage when welding thin material.

ACCESSORIES

- Earth clamp cable kit.
- Electrode cable kit.
- TIG torch.
- Argon flowmeter.

SOME KEY FEATURES

- IGBT system.
- 25% Voltage fluctuation safeguard..
- Soft, stable arc.
- High quality welds.
- LED digital display.
- High frequency ignition.
- Overheat protection.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IW-TIG180M
MODEL	TIG180M
RATED POWER SUPPLY INPUT FOR TIG	220V±25% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	35% @ 180A
OPEN CIRCUIT VOLTAGE	60V
WELDING CURRENT RANGE	10 - 180A
DIMENSIONS(mm) AND NET WEIGHT(kg)	465 x 270 x 345mm ▪ 10.2kg



iWELD TIG-200i-AC/DC PULSE WELDER - 220V



The iWELD TIG 200i AC/DC PULSE inverter is a robust, generator-friendly machine designed and manufactured for operation under demanding industrial conditions. The advanced power input system will detect and handle a voltage drop or a spike of up to 20%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. The two main built-in functions, pulse welds and high frequency ignition, ensure professional ease of welding and high-quality welds. The pulse function facilitates control over the welding process and prevents burn-through on the workpiece. The high frequency ignition creates a very soft start arc as well as maximum arc control. This obviates the need to touch the workpiece with the tungsten electrode. Both functions have a great advantage when welding thin material. The iWELD TIG 200i AC/DC PULSE inverter's selection panel allows welding with either AC or DC current - in AC mode for aluminium welding or in DC mode for all steel and steel alloy materials. It has good static characteristics and their dynamic performance is equally good.

SOME KEY FEATURES

- Multi-function digital control featuring DC TIG, pulsed DC TIG, pulsed AC TIG and MMA welding in one unit.
- A 20% Voltage fluctuation safeguard.
- Excellent arc force performance and a wide cleaning range all contributing to high quality welding results.
- The high-frequency, high-voltage arc ignition circuit produces excellent arc-starting at 99.9% success rate which all contribute to its suitability for various types of spot welding.
- Pulsed welding with adjustable pulse frequency ensures the successful welding of thin and varying thickness metal sheets and dissimilar metals. It also meets the requirements for forming double-sided welds.
- In case of wire-spitting during the welding process, a foot control allows current increase resulting in rapid temperature increase. Decreasing the current output allows continuation of a weld seam. Using a foot control adds to welding efficiency, reduces difficulties during the welding process and improves welding quality.

ACCESSORIES

- Earth clamp cable kit.
- Electrode holder cable kit.
- TIG torch.
- Argon flowmeter.

OPTIONAL EXTRA

- Foot control if AC welding is required (TA-FOOT-CONTROL).

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IW-TIG200I-AC/DC
MODEL	TIG200I-AC/DC
RATED POWER SUPPLY INPUT	220V±20% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	30% @ 200A
OPEN CIRCUIT VOLTAGE	60V
WELDING CURRENT RANGE	10 - 200A(TIG) ▪ 10A - 170A(MMA)
DIMENSIONS(mm) AND NET WEIGHT(kg)	490 x 300 x 330mm ▪ 13.5kg

iWELD TIG300P AC/DC WELDER - 380V



This iWELD TIG300P AC/DC is a 300A, 380V AC/DC TIG inverter welding machine. With it's high-power IGBT and advanced inverter technology, it has good dynamic characteristics, stable arc, good welding quality and is easy to control, etc... The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation. Suitable for welding non-ferrous metal material, like stainless steel, alloy steel, carbon steel, and copper, etc. and can be applied to electric power construction, building construction, hardware products, furniture manufacturing, kitchen equipment and other industries. When the output is set to alternating current, it is used to weld aluminum alloy and aluminum alloy materials, for example, bicycle frame welding, indoor and outdoor decoration, etc ... This iWELD TIG300P AC/DC inverter welding machine has a reasonable static characteristics and good dynamic performance.

SOME KEY FEATURES

- Multi function, digital controlled welding machines featuring DC TIG, pulsed DC TIG pulsed AC TIG and MMA welding in one simple designed, light and small size unit.
- Multi layer control circuit boards ensure high reliability and a long service life.
- The secondary inverter technology produces a pure square wave output, excellent arc force performance and a wide cleaning range, a combination ensuring high quality welding results.
- Easy arc start facilitated by the high frequency, high voltage arc ignition circuit and stable, reliable arc performance.
- Pulsed welding with adjustable pulse frequency ensuring high quality welding on thin metal sheet, dissimilar metals, varying thickness materials and even for double sided forming welds.
- Foot control available to adjust current freely, improve welding efficiency, reduce welding difficulties and ensure welding quality. Increase current for rapid heating and decrease current to generate a weld seam.
- Overheat protection improves machine reliability.

ACCESSORIES

- Earth clamp cable kit.
- TIG torch.
- Argon Flowmeter.

OPTIONAL EXTRAS

- Foot control
- Watercooler

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IW-TIG300P-AC/DC
MODEL	TIG300P-AC/DC
POWER SUPPLY VOLTAGE	380V±15% THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 300A
OPEN CIRCUIT VOLTAGE	68V
WELDING RANGE	10 TO 300A (TIG) ▪ 10 TO 300A (MMA)
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	610 x 304 x 590mm ▪ 30KG



## iWELD MIG-120XP - HANDHELD GASLESS WELDER



The iWeld MIG-120XP is a 120A single phase, 220V, handheld gasless MIG welding machine which is designed on and manufactured to the latest digital inverter technology. The machine is extremely portable and can accommodate a wire spool of up to 1 kg. It is ideal for on-site work due to its light mass and diverse applications. The MIG120XP takes the guess work out of the welding operation employing an impressive synergic set function allowing the operator to perform a professional job by auto adjusting parameters to your requirements. Its characteristics ideally suit professionals and DIY users.

### ACCESSORIES

- MIG torch built into unit
- Earth clamp cable kit.

### SOME KEY FEATURES

- Advanced IGBT inverter technology.
- Synergic function.
- Stable welding current.
- Portable and suitable for field operation.
- Energy saving.
- Easy to operate.
- Gasless flux-core MIG welding only.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IW-MIG-120XP
MODEL	MIG-120XP
POWER SUPPLY VOLTAGE	220V±15% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	20% @ 120A
NO-LOAD VOLTAGE	55V
WELDING RANGE	40 TO 120A
WIRE DIAMETER	0.8 TO 1.0mm
DIMENSIONS(mm) AND NET WEIGHT(kg)	370 x 195 x 260mm ■ 3.0kg



# iWELD MIG-120ND - GASLESS WELDER



The iWeld MIG-120ND is a 120A single phase, 220V gasless MIG welding machine which is designed on and manufactured to the latest digital inverter technology. The machine is extremely portable and can accommodate a wire spool of up to 1 kg. It is ideal for on-site work due to its light mass and diverse applications. Its characteristics ideally suit professionals and DIY users.

ACCESSORIES

SOME KEY FEATURES

- MIG torch.
  - Argon flowmeter.
  - Earth clamp cable kit.
  - Electrode holder cable kit.
- Advanced IGBT inverter technology.
  - Precise current control.
  - Stable welding current.
  - Portable and suitable for field operation.
  - Energy saving.
  - Easy to operate.
  - Gasless flux-core MIG welding.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IW-MIG-120ND
MODEL	MIG-120ND
POWER SUPPLY VOLTAGE	220V±15% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 120A
OUTPUT VOLTAGE	15.5 - 20V
WELDING RANGE	30 TO 120A
WIRE DIAMETER	0.6 TO 1.0mm
DIMENSIONS(mm) AND NET WEIGHT(kg)	370 x 200 x 260mm ▪ 4.0kg



The iWeld MIG-140NA is a 140A single phase, 220V MIG multi-purpose welding machine which is designed on and manufactured to the latest digital inverter technology. It supports MIG, LIFT TIG and MMA welding processes. The machine is extremely portable and can accommodate a wire spool of up to 5 kg. It is ideal for on-site work due to its light mass and diverse applications. Its characteristics ideally suit professionals and DIY users.

ACCESSORIES	SOME KEY FEATURES
<ul style="list-style-type: none"><li>• MIG torch</li><li>• Argon flowmeter</li><li>• Earth clamp cable kit</li><li>• Electrode holder cable kit</li></ul>	<ul style="list-style-type: none"><li>• Advanced IGBT inverter technology.</li><li>• Precise current control.</li><li>• Stable welding current.</li><li>• Portable and suitable for field operation.</li><li>• Energy saving.</li><li>• Easy to operate.</li><li>• Multifunction MIG, MMA and lift TIG.</li><li>• Flux-core MIG welding (gas and gasless).</li></ul>

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IW-MIG-140NA
MODEL	MIG-140NA
POWER SUPPLY VOLTAGE	220V±15% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 140A
OPEN CIRCUIT VOLTAGE	15.5 - 20V
WELDING RANGE	50 TO 140A
WIRE DIAMETER	0.6 TO 1.0mm
DIMENSIONS(mm) AND NET WEIGHT(kg)	455 x 220 x 345mm ▪ 6.8kg



The iWeld MIG-225PA SYNERGIC is a 225A single phase, 220V MIG multi-purpose welding machine which is designed on and manufactured to the latest digital inverter technology. It supports MIG, MAG, LIFT TIG and MMA welding processes. The machine is extremely portable and can accommodate a wire spool of up to 5 kg. It is ideal for on-site work due to its light mass and diverse applications. Its characteristics ideally suit professionals and DIY users.

ACCESSORIES

- MIG torch.
- Argon flowmeter.
- Earth clamp cable kit.
- Electrode holder cable kit.

SOME KEY FEATURES

- Synergic function for easy operation.
- Advanced IGBT inverter technology.
- Precise current wave control.
- Stable welding current.
- Portable and suitable for field operation.
- Energy saving.
- Control panel work-light function.
- Designed for MIG/MAG and MMA.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IW-MIG-225PA
MODEL	MIG-225PA
POWER SUPPLY VOLTAGE	220V±15% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 225A
OPEN CIRCUIT VOLTAGE	65V
WELDING RANGE	20 TO 225A
WIRE DIAMETER	0.6 TO 1.0mm
DIMENSIONS(mm) AND NET WEIGHT(kg)	520 x 310 x 410mm ▪ 15kg





# iWELD MIG/MMA-350E WELDER WITH SEPARATE WIREFEEDER - 380V



The iWELD MIG-350E is a three phase, 380V DC MIG multi-purpose inverter welding machine which is designed on and manufactured to the latest digital inverter technology. Improved productivity and weld quality, saving on consumables, energy, reduced spatter, heat and fumes are all attributed to the technology. The DC inverter supports MIG, MAG and MMA welding processes and features a separate four-wheel drive wire feeder capable of holding wire spools of up to 20kg. The separate feeder has a 5m interconnecting cable facilitating the convenience of welding at out-of-reach areas. Its characteristics ideally suit the requirements of professionals and DIY users.

### SOME KEY FEATURES:

- A stable welding process and excellent arc self regulation is ensured by the closed-loop control system regulating a stable voltage in cases of grid voltage fluctuation.
- High efficiency and duty cycle and a noiseless rectifier.
- Ease of operation, a simple operation interface and synergic adjustment.
- Less spatter, a high metal deposition rate resulting in an acceptable welding bead with less deformation.
- The self-locking function greatly reduces operator fatigue owing to extended welding operations.
- Trouble shooting is minimised by the protection circuit ensuring safety and reliability.
- Uncomplicated layout, fine structure and easy maintenance.

### ACCESSORIES

- MIG torch
- Argon flowmeter
- Earth clamp cable kit
- Electrode holder cable kit
- Rolling trolley with cylinder rack

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IW-MIG350E
MODEL	MIG350E
POWER SUPPLY VOLTAGE	380V THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 350A
OPEN CIRCUIT VOLTAGE	68V
WELDING RANGE	40 TO 350A
WIRE DIAMETER	0.8 TO 1.2mm
DIMENSIONS(mm) AND NET WEIGHT(kg)	MACHINE : 822 x 390 x 632mm ▪ 23kg WIREFEEDER : 710 x 340 x 500mm ▪ 16kg TROLLEY : 1150 x 520 x 500mm ▪ 23kg

iWELD MIG/MMA-500E WELDER WITH  
SEPARATE WIREFEEDER - 380V



The iWELD MIG-500E is a three phase, 380V DC MIG multi-purpose inverter welding machine which is designed on and manufactured to the latest digital inverter technology. Improved productivity and weld quality, saving on consumables, energy, reduced spatter, heat and fumes are all attributed to the technology. The DC inverter supports MIG, MAG and MMA welding processes and features a separate four-wheel drive wire feeder capable of holding wire spools of up to 20kg. The separate feeder has a 5m interconnecting cable facilitating the convenience of welding at out-of-reach areas. Its characteristics ideally suit the requirements of professionals and DIY users.

SOME KEY FEATURES:

- A stable welding process and excellent arc self regulation is ensured by the closed-loop control system regulating a stable voltage in cases of grid voltage fluctuation.
- High efficiency and duty cycle and a noiseless rectifier.
- Ease of operation, a simple operation interface and synergic adjustment.
- Less spatter, a high metal deposition rate resulting in an acceptable welding bead with less deformation.
- The self-locking function greatly reduces operator fatigue owing to extended welding operations.
- Trouble shooting is minimised by the protection circuit ensuring safety and reliability.
- Uncomplicated layout, fine structure and easy maintenance.

ACCESSORIES

- MIG torch
- Argon flowmeter
- Earth clamp cable kit
- Electrode holder cable kit
- Rolling trolley with cylinder rack

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IW-MIG500E
MODEL	MIG500E
POWER SUPPLY VOLTAGE	380V THREE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	60% @ 500A
OPEN CIRCUIT VOLTAGE	68V
WELDING RANGE	40 TO 500A
WIRE DIAMETER	0.8 TO 1.6mm
DIMENSIONS(mm) AND NET WEIGHT(kg)	MACHINE : 822 x 390 x 632mm ▪ 23kg WIREFEEDER : 710 x 340 x 500mm ▪ 16kg TROLLEY : 1150 x 520 x 500mm ▪ 23kg

# iWELD CUT-40H PLASMA CUTTER - 220V



This iWELD CUT40H is a 40A, 220v single phase air plasma cutting machine. It produces a stronger, more concentrated and stable electric arc. The temperature of the arc can reach a high ionization state, forming a powerful plasma arc which allows metal to be cut quickly by plasma arc. The heat affected zone is reduced as much as possible and the energy is used more effectively giving a super smooth cutting surface. It can be used for cutting various metal materials such as stainless steel, aluminium, copper, cast iron and carbon steel. The advanced power input system will detect and handle a voltage drop or a spike of up to 25%. This will not only safeguard the machine against damage resulting from erratic power supply, but will also ensure smooth, uninterrupted operation.

The iWELD CUT40H features a fast cutting speed, narrow cutting seam, clean cut, small heat affected zone, low deformation, simple operation and outstanding energy saving effect. It's suitable for manufacturing, installation and maintenance of various machinery and metal structures, cutting thin plates, opening holes, patching, beveling, cutting pipes and other cutting processes. It is widely used in aerial work, outdoor work, indoor and outdoor decoration, shipyard steel plate, petrochemical equipment, construction site and other industries. Manufactured in accordance with IEC60974-1, Safety Requirements for Arc Welding Equipment.

### ACCESSORIES

- Earth clamp cable kit.
- PT31 plasma torch.

### SOME KEY FEATURES

- Reliable overheat, over-current and over-voltage protection.
- A 25% Voltage fluctuation safeguard.
- Easy arc striking and stable arc allow easy arc control.
- Accurate preset current ensures a clean cut, energy-saving performance on workpieces of differing thickness.
- Adjustable Pre-flow checking and post-flow cooling.
- Narrow cutting seam, clean cutting edge and no deformation.

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IW-CUT40H
MODEL	CUT40H
POWER SUPPLY VOLTAGE	220V±25% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	35% @ 40A
OPEN CIRCUIT VOLTAGE	231V
OUTPUT CURRENT RANGE	10 TO 40A
MAXIMUM QUALITY CUT THICKNESS (MILD STEEL)	8mm
SEVERANCE CUT THICKNESS (MILD STEEL)	12mm
PACKAGE DIMENSIONS(MM) AND NET WEIGHT(KG)	455 x 270 x 345mm ▪ 6.6KG

# iWELD CUT-60H PLASMA CUTTER - 220V



The iWELD CUT 60H is a new generation inverter plasma cutter designed on and manufactured to the latest IGBT technology and is characterised by its performance and high efficiency. It delivers clean and straight cuts at adjustable currents up to 60H. It is equipped with a pilot ignition, is reliable, light-weight and easy to use. The advanced power input system will detect and handle a voltage drop or a spike of up to 15%. Conductive materials such as standard steel, stainless steel, aluminium, brass, copper and titanium can be cut hassle free.

### SOME KEY FEATURES

- Advanced IGBT inverter technology
- Portable
- Pilot ignition
- Over-heating protection
- Severance Cut of 25mm
- Accurate preset current ensures a clean cut.
- P60 hand-held plasma torch
- Narrow cutting seam
- Clean cutting edges
- No deformation

### ACCESSORIES

- Earth clamp cable kit
- P60 hand-held plasma torch

SPECIFICATION	DESCRIPTION
PRODUCT CODE	IW-CUT60H
MODEL	CUT60H
POWER SUPPLY VOLTAGE	220V±15% SINGLE PHASE
DUTY CYCLE 40°C @ 10 MINUTES	35% @ 60A
WORKING PRESSURE	4 - 5 BAR
CUTTING CURRENT RANGE	20 - 60A
SEVERANCE CUT - MILD STEEL	≤ 25mm
PRODUCTION CUT - MILD STEEL	≤ 20mm
PRODUCTION CUT - STAINLESS STEEL	≤ 18mm
PRODUCTION CUT - ALUMINIUM	≤ 16mm
PRODUCTION CUT - COPPER	≤ 12mm
DIMENSIONS(mm) AND NET WEIGHT(kg)	580 x 315 x 415mm ▪ 10.6kg



# WELDING AND PLASMA CUTTING MACHINES



## BROCHURES AVAILABLE

SAFETY EQUIPMENT FOR PPE & ONSITE

WELDING EQUIPMENT & ACCESSORIES

GAS EQUIPMENT & ACCESSORIES

PLASMA TORCH & ACCESSORIES

WELDING & PLASMA MACHINES

MIG TORCH & ACCESSORIES

TIG TORCH & ACCESSORIES

WELDING CONSUMABLES