

TIG welding



| Items | TIG-100 | TIG-130 | TIG-150 |
|---|-------------|-------------|-------------|
| Power voltage | 115/230 | 230 | 230 |
| frequency(HZ) | 50/60 | 50/60 | 50/60 |
| Rated input current(A) | 12 | 16 | 20 |
| No-load voltage(V) | 80 | 80 | 80 |
| Output current range(A) | 5-85 | 5-120 | 5-140 |
| Rated duty cycle(%) | 85@25 | 120@15 | 140@10 |
| Efficiency (%) | 75 | 83 | 83 |
| Insulation class | H | H | H |
| Protection class | IP21S | IP21S | IP21S |
| Measurement (mm) | 365*230*330 | 365*230*330 | 365*230*330 |
| Power factor | 0.9 | 0.9 | 0.9 |
| Weight (KG) | 7 | 7 | 7 |
| Cod.(NO) | 892004 | 892005 | 892006 |
| Features: especially for welding stainless steel; light weight and easy to carry;smooth and beautiful welding appearance;mainly for home use. | | | |

| Items | TIG-160 | TIG-200 |
|------------------------|---------|---------|
| Power voltage | 230 | 230 |
| Rated input power(KVA) | 3.2 | 4.5 |

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| | | |
|--|-------------|-------------|
| No-load voltage(V) | 43 | 43 |
| Output current range(A) | 10-160 | 10-200 |
| Rated output voltage(v) | 16.4 | 18 |
| Duty cycle(%) | 60 | 60 |
| Efficiency (%) | 85 | 85 |
| Weight (KG) | 11 | 11 |
| Measurement (mm) | 460*270*345 | 460*270*345 |
| Protection class | IP21S | IP21S |
| Welding thickness(MM) | 0.3-5 | 0.3-8 |
| Usable electrode (MM) | 1.6-4.0 | 1.6-4.0 |
| Cod.(NO) | 892001 | 892002 |
| Features: especially for welding stainless steel; light weight and easy to carry; HF arc-starting ; smooth and beautiful welding appearance. | | |



| | |
|-------------------------|-------------|
| Items | TIG220S |
| Power voltage | 230 |
| Rated input power(KVA) | 4.5 |
| No-load voltage(V) | 43 |
| Output current range(A) | 10-220 |
| Rated output voltage(v) | 18 |
| duty cycle(%) | 60 |
| Efficiency (%) | 85 |
| Weight(KG) | 11 |
| Measurement (mm) | 460*270*345 |
| Protection class | IP21S |
| Welding thickness(mm) | 0.3-9 |
| Usable electrode(mm) | 1.6-4.0 |
| Cod.(NO) | 892023 |

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Especially for welding stainless steel;light weight and easy to carry;HF arc-starting; smooth and beautiful welding appearance; the gas delay time could be adjustment from 0-5s,thus improve the usage gas and save the welding cost.

| Items | TIG-250 | TIG-315 |
|-----------------------------|-------------|-------------|
| Power voltage(v)(3PH) | 380 | 380 |
| Rated input power(KVA) | 6.3 | 8.8 |
| Input voltage frequency(HZ) | 50/60 | 50/60 |
| No-load voltage(V) | 40 | 40 |
| Output current range(A) | 20-250 | 20-290 |
| | | |
| Rated output voltage(v) | 20 | 22 |
| duty cycle(%) | 60 | 60 |
| Efficiency (%) | 85 | 85 |
| Insulation class | F | F |
| Weight(KG) | 15 | 15 |
| Measurement (mm) | 535*285*385 | 535*285*385 |
| Protection class | IP21S | IP21S |
| Cod.(NO) | 892013 | 892014 |

Features: adopting MOSFET inverter technology, advanced electrical circuit design and energy saving. Stable and reliable welding current with digital display. Automatic compensation for power voltage fluctuation; advanced inverter technology, multi functions. Easy to start arc, stable welding current, low welding noise and little spatter, good and smooth welding appearance.



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| Items | TIG160C | TIG180C | TIG200C |
|--|-------------|-------------|-------------|
| Power voltage | 230 | 230 | 230 |
| Rated input power(KVA) | 3.2 | 3.9 | 4.5 |
| Input voltage frequency(HZ) | 50/60 | 50/60 | 50/60 |
| NO-Load voltage(v) | 56 | 56 | 56 |
| Output current range(A) | 10-160 | 10-180 | 10-200 |
| Rated output voltage | 16.4 | 17.2 | 18 |
| duty cycle(%) | 60 | 60 | 60 |
| Efficiency (%) | 85 | 85 | 85 |
| Insulation class | F | F | F |
| Weight(KG) | 11 | 11 | 11 |
| Measurement (mm) | 460*270*345 | 460*270*345 | 460*270*345 |
| Protection class | IP21S | IP21S | IP21S |
| Welding thickness (mm) | 0.3-5 | 0.3-7 | 0.3-9 |
| Usable electrode(mm) | 1.6-4.0 | 1.6-4.0 | 1.6-4.0 |
| Cod.(NO) | 892007 | 892008 | 892009 |
| Features: Advanced inverter technology, high frequency, compact size and light weight, easy to carry. Stable and reliable welding current; low no-load loss. low power consumption . Application for welding stainless steel and carbon steel. | | | |

| Items | TIG-250C | TIG-315C |
|--|-------------|-------------|
| Power voltage(v)(3PH) | 380 | 380 |
| Rated input power(KVA) | 6.3 | 8.8 |
| Input voltage frequency(HZ) | 50/60 | 50/60 |
| No-load voltage(V) | 54 | 54 |
| Output current range(A) | 20-250 | 20-290 |
| Rated output voltage(v) | 20 | 22 |
| duty cycle(%) | 60 | 60 |
| Efficiency (%) | 85 | 85 |
| Insulation class | F | F |
| Weight(KG) | 15 | 15 |
| Measurement (mm) | 535*285*385 | 535*285*385 |
| Protection class | IP21S | IP21S |
| Cod.(NO) | 892032 | 892033 |
| Features: adopting MOSFET inverter technology, advanced electrical circuit design and energy saving. Stable and reliable welding current with digital display. Automatic compensation for power voltage fluctuation; advanced inverter technology, multi functions. Easy to start arc, stable welding current, low welding noise and little spatter, good and smooth welding appearance. | | |



| Items | TIG-315MC | TIG-400MC | TIG-315C | TIG-400C |
|-------------------------|-------------|-------------|-------------|-------------|
| Power voltage(v)(3PH) | 380 | 380 | 380 | 380 |
| Rated input power(KVA) | 9.5 | 14 | 9.75 | 14.3 |
| Input voltage | 50/60 | 50/60 | 50/60 | 50/60 |
| frequency(HZ) | | | | |
| No-load voltage(V) | 60 | 60 | 60 | 60 |
| Output current range(A) | 20-315 | 20-400 | 10-315 | 15-400 |
| Rated output voltage(v) | 22.6 | 26 | 22.6 | 26 |
| duty cycle(%) | 60 | 60 | 60 | 60 |
| Efficiency (%) | 85 | 85 | 85 | 85 |
| Insulation class | F | F | F | F |
| Weight(KG) | 26 | 28 | 27.5 | 28 |
| Measurement (mm) | 478*378*302 | 478*378*302 | 546*274*465 | 546*274*465 |
| Protection class | IP21S | IP21S | IP21S | IP21S |
| Cod.(NO) | 892024 | 892025 | 892035 | 892036 |

Features: 1)adopting MOSFET inverter technology, advanced electrical circuit design and energy saving. Stable and reliable welding current with digital display. Automatic compensation for power voltage fluctuation; advanced inverter technology, multi functions. Easy to start arc, stable welding current, low welding noise and little spatter, good and smooth welding appearance.

2) MMA and Tig welding. two combination type. It is for doing quality welding of any Metal. Adopting IGBT technology, output current is sufficient . Three protection Design (water proof, dust proof and anti-erosion functions), on one hand it can improve Inside electrical components working efficiency, on the other hand , fan cooling can Reach 100%,greatly improve duty cycle. Under 40C high temperature working Environment, the duty cycle can reach more than 60%. TIG400C machine can weld Dia 5mm electrode continuously. Arc force current and current declining time can be Freely set. Supported with water cooling welding torch.

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| Items | TIG160M | TIG180M | TIG200M |
|---|-------------|-------------|-------------|
| Power voltage | 230 | 230 | 230 |
| frequency(HZ) | 50/60 | 50/60 | 50/60 |
| Rated input current(A) | 14.4 | 17.6 | 19.8 |
| No-load voltage(V) | 56 | 56 | 56 |
| Output current range(A) | 20-160 | 20-180 | 20-200 |
| Rated duty cycle(%) | 60 | 60 | 60 |
| Efficiency (%) | 85 | 85 | 85 |
| Insulation class | F | F | F |
| Protection class | IP21S | IP21S | IP21S |
| Measurement (mm) | 460*270*345 | 460*270*345 | 460*270*345 |
| Power factor | 0.9 | 0.9 | 0.9 |
| Weight (KG) | 9 | 9 | 9 |
| Usable electrode(mm) | 1.6-4.0 | 1.6-4.0 | 1.6-4.0 |
| Cod.(NO) | 892010 | 892011 | 892012 |
| <p>Features: adopting MOSFET inverter technology, advanced electrical circuit design and energy saving. Stable and reliable welding current with digital display. Automatic compensation for power voltage fluctuation; advanced inverter technology, multi functions. Easy to start arc, stable welding current, low welding noise and little spatter, good and smooth welding appearance.</p> <p>Pulse function, specially for welding thin metal plates.</p> | | | |



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| Items | WSM-160 | WSM-180 | WSM-200 |
|---|-------------|-------------|-------------|
| Power voltage | 230 | 230 | 230 |
| frequency(HZ) | 50/60 | 50/60 | 50/60 |
| Rated input current(A) | 14.4 | 17.6 | 19.8 |
| No-load voltage(V) | 56 | 56 | 56 |
| Output current range(A) | 20-160 | 20-180 | 20-200 |
| Rated duty cycle(%) | 60 | 60 | 60 |
| Efficiency (%) | 85 | 85 | 85 |
| Insulation class | F | F | F |
| Protection class | IP21S | IP21S | IP21S |
| Measurement (mm) | 480*260*410 | 480*260*410 | 480*260*410 |
| Weight (KG) | 15 | 15 | 15 |
| Cod.(NO) | 892017 | 892018 | 892019 |
| <p>Features: adopting MOSFET inverter technology, advanced electrical circuit design and energy saving. Stable and reliable welding current with digital display. Automatic compensation for power voltage fluctuation; advanced inverter technology, multi functions. Easy to start arc, stable welding current, low welding noise and little spatter, good and smooth welding appearance.</p> <p>Pulse function, specially for welding thin metal plates.</p> | | | |

| Items | WSM3151 | WSM4001 |
|------------------------------|-----------------|-----------------|
| Input power(v) | 3phaseAC380 15% | 3phaseAC380 15% |
| Rated input current(A) | 9 | 20 |
| No-load voltage(V) | 60 | 60 |
| Output current (A) | 20-315 | 20-400 |
| Rated output voltage(v) | 22.6 | 26 |
| Duty cycle(%) | 60 | 60 |
| Arc strike | HF | HF |
| Efficiency (%) | 85 | 85 |
| Power factor | 0.93 | 0.93 |
| Insulation class | F | F |
| Pulse frequency(LF/MF)HZ | 0.5-5/15-100 | 0.5-5/15-100 |
| Pulse rate(%) | 10-90 | 10-90 |
| Arc strike/ending current(A) | 20-315 | 20-400 |
| Gas-in delay time(s) | 1-10 | 1-10 |
| Protection class | IP21S | IP21S |
| Measurement (mm) | 546*274*465 | 546*274*465 |

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|--|--------|--------|
| Weight (KG) | 27.5 | 28 |
| Cod.(NO) | 112001 | 112002 |
| <p>Features: rich function set and adjustment to fit the requirements of high quality welding ; sectional current adjustment ;free to set arc-starting current, basic current, welding current, rise time, decay time, arc-ending current and gas-in delay time. WSM 200 is only with delaying gas-in and decaying function. Numbers of pulse adjustment functions, quick pulse current rising and failing. Fine welding, especially adapted to bicycle industry. Select functions of 2T/4T repeating, making operation more handy.(WSM 200 is without this function). The product is designed with waterproof, dust proof and anti-erosion functions, increasing the reliability of the machine. Meanwhile, fan cooling efficiency reaches 100%, greatly increasing the duty cycle. With both functions of TIG and MMA, can be adapted to long-time, high-quality welding of any metal materials. Suitable for metal materials as stainless steel, cooper, low alloy steel, carbon steel and so on.</p> | | |



| | |
|--------------------------|-----------------------|
| Items | TIG200P AC/DC |
| Power voltage | 1phAC220V+-15% |
| frequency(HZ) | 50/60 |
| Rated input current(A) | 28 |
| Output current range(A) | TIG 10-200,MMA 10-150 |
| No-load voltage(V) | 56 |
| Rated duty voltage(v) | TIG 18 MMA 26 |
| Pulse frequency(HZ) | 0.5-5 |
| Pulse width (%) | 10-90 |
| AC balance (%) | 20-80 |
| Current fall time(s)(4T) | 0-10 |
| Remote control | yes |

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|--|-------------|
| Arc way | HF |
| Frequency (%) | 80 |
| Duty cycle(%) | 60 |
| Power factor | 0.73 |
| Insulation class | F |
| Protection class | IP21S |
| Weight (kg) | 20 |
| Measurement (mm) | 498*328*302 |
| Cod.(NO) | 112003 |
| Features: mutil-function: AC/DC MMA, AC/DC pulse TIG. Quality square wave power supply, short current zero-crossing time, stable arc. Super cleaning ability of oxide, film, continuously adjustable cleaning width, bright and beautiful weld seam. especially adopted to weld aluminum, magnesium and its alloy materials. Easy to start arc, stable welding current, quick dynamic response, focused arc, AC welding without bias and beautiful welding forming. Comprehensive protection functions of over-current, over-heat, over-voltage and under-voltage, safe and reliable. Panel with remote control interface, optional to be equipped with foot switch. | |

| Items | CT312 | CT416 |
|------------------|-------------|-------------|
| Power voltage(v) | 230 | 230 |
| frequency(HZ) | 50/60 | 50/60 |
| input power(KVA) | 4 | 6 |
| No-load loss(w) | 40 | 40 |
| Duty cycle(%) | 60 | 60 |
| Power factor | 0.73 | 0.73 |
| Efficiency (%) | 80 | 80 |
| Insulation class | F | F |
| Protection class | IP21S | IP21S |
| Measurement (mm) | 371*153*232 | 432*204*302 |
| Weight (KG) | 9 | 9 |

| | TIG | MMA | CUT | TIG | MMA | CUT |
|-------------------------|--------|--------|-------|--------|--------|-------|
| Input current(A) | 13.8 | 23.2 | 14 | 26.4 | 34 | 31 |
| Rated output current(A) | 120 | 120 | 30 | 160 | 160 | 40 |
| Current adjustment(A) | 10-120 | 10-120 | 15-30 | 10-160 | 10-160 | 20-40 |
| No-load voltage(v) | 55 | 55 | 220 | 62 | 62 | 260 |
| Welding voltage(v) | 15 | 25 | 92 | 16 | 26 | 96 |
| Nozzle inside | - | - | 1.0 | - | - | 1.2 |

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|--|--------|------------|-----|--------|------------|------|
| dia(mm) | | | | | | |
| Air pressure(mpa) | - | - | 0.4 | - | - | 0.4 |
| Gas flow(l/min) | 2-5 | - | 80 | 2-5 | - | 80 |
| Max. cutting thickness(mm) | - | - | 1-8 | - | - | 1-12 |
| Arc strike | HF | Scratching | HF | HF | scratching | HF |
| Cod.(No) | | | | | | |
| | 112004 | | | 112005 | | |
| Mutil-functions: TIG,MMA, PLASMA,CUT. Automatically identify and switch welding/cutting status. The operation is simple and reliable. Economic and practical .TIG: good arc striking, stable current and focused arc, able to weld any metal materials. MMA :easy to strike arc and arc is stable. Small size ,light weight, easy to install and convenient to carry. Perfect circuit design, simple structure, good technics, state and reliable. | | | | | | |



| Items | TIG250W | TIG315W | TIG400W |
|-------------------------|----------|----------|----------|
| Power voltage | 380(3PH) | 380(3PH) | 380(3PH) |
| frequency(HZ) | 50/60 | 50/60 | 50/60 |
| Rated input current(A) | 13.5 | 18 | 25.8 |
| No-load voltage(V) | 75 | 75 | 75 |
| Output current range(A) | 15-250 | 15-315 | 15-400 |
| No-load | 40 | 40 | 40 |

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|----------------------|-------------|-------------|-------------|
| consumption | | | |
| Duty cycle(%) | 60 | 60 | 60 |
| Efficiency (%) | 85 | 85 | 85 |
| Power factor | 0.7-0.9 | 0.7-0.9 | 0.7-0.9 |
| Insulation class | F | F | F |
| Protection class | IP21S | IP21S | IP21S |
| Weight (KG) | 45 | 45 | 55 |
| Measurement (mm) | 560*330*640 | 560*330*640 | 560*330*640 |
| Usable electrode(mm) | 2.5-5 | 2.5-6 | 2.5-7 |
| Cod.(NO) | 892026 | 892027 | 892028 |

Features: high quality and energy-saving . Advanced arc force and arc-starting function. Stable arc can make little spatter. High welding quality, deep penetration. Auto protection of over-voltage and over-current. Be able to work continuously, it can balance automatically when voltage is waving. Suitable for welding all kinds of basic welding rod. Be able to weld cellulose rod as well. Be able to equip with remote controller for distant welding.

| Items | WSE200 | WSE250 |
|--------------------------|-------------|-------------|
| Power voltage | 230 | 230 |
| Rated input current(A) | 14 | 22 |
| Output current range (A) | 10-200 | 10-250 |
| Preheat time(S) | 0-2 | 0-2 |
| Delay time (s) | 2-10 | 2-10 |
| Attenuated time(s) | 0-5 | 0-5 |
| Arc strike way | HF | HF |
| No-load voltage(v) | 56 | 56 |
| Rated output voltage(v) | 18 | 20 |
| Insulation class | F | F |
| Efficiency(%) | 80 | 80 |
| Duty cycle(%) | 60 | 60 |
| Weight (KG) | 22 | 23 |
| Measurement (mm) | 495*330*390 | 495*330*390 |
| Cod.(NO) | 892022 | 892034 |

Square wave output, stable arc, HF; AC/DC Tig welding, especially for aluminum material welding; foot pedal controller can be added as extra function. Built- in alarming and protective circuits are provided to prevent over current, over heat, over voltage, low voltage, etc and ensure safe operation; high duty cycle. Suitable for welding of various materials such as aluminum, aluminum alloy, carbon steel, stainless steel, etc.



| | |
|--|-------------|
| Items | WSME315 |
| Power voltage | 380 |
| Rated input current(A) | 20 |
| Output current range (A) | 10-315 |
| Rise time(S) | 0-10 |
| Delay time (s) | 1-10 |
| Fall time(s) | 0-10 |
| Arc strike time | HF |
| No-load voltage(v) | 60 |
| Rated output voltage(v) | 22.6 |
| Insulation class | F |
| Efficiency(%) | 85 |
| Duty cycle(%) | 70 |
| Weight (KG) | 40 |
| Measurement (mm) | 616*626*670 |
| Cod.(NO) | 892021 |
| Multi-functions: AC/DC MMAAC/DC pulse TIG. Quality square wave power supply, short current zero-crossing time, stable arc; super cleaning ability of oxide film, continuously adjustable cleaning width. Bright and beautiful weld seam, especially to weld aluminum , magnesium and alloy materials. Easy to start arc, stable welding current, quick dynamic | |

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response, focused arc ,AC welding without bias and beautiful welding forming. Comprehensive protection functions of over-current, over-heat, over-voltage, and under-voltage, safe and reliable. Panel with remote control interface, optional to be equipped with foot switch.

| Items | WSME200W | WSME250W | WSME315W |
|-------------------------|-------------|-------------|-------------|
| Power voltage | 380 | 380 | 380 |
| No-load voltage(V) | 75 | 75 | 75 |
| Output current range(A) | 10-200 | 10-250 | 10-315 |
| Rated Output voltage(v) | 18 | 20 | 22.6 |
| duty cycle(%) | 60 | 60 | 60 |
| Efficiency | 85 | 85 | 85 |
| Weight (KG) | 22 | 35 | 38 |
| Protection class | F | F | F |
| Measurement (mm) | 515*260*370 | 515*260*370 | 515*260*370 |
| Cod.(NO) | 892029 | 892030 | 892031 |

Mutil-functions: AC square wave TIG,DC pulse TIG,DC TIG MMA and spot TIG welding. Microprocessor control technology. Parameters in panel are set by coordinate-type touch key, and single-knob makes the operation simple and clear. There are many adjustable parameters under each of the five welding states. All parameters under the five welding states can be stored in memory channel. Protective functions :overheat, over-current, and under-voltage etc.