



Product Catalogue







K2

The Basic Welding Expert

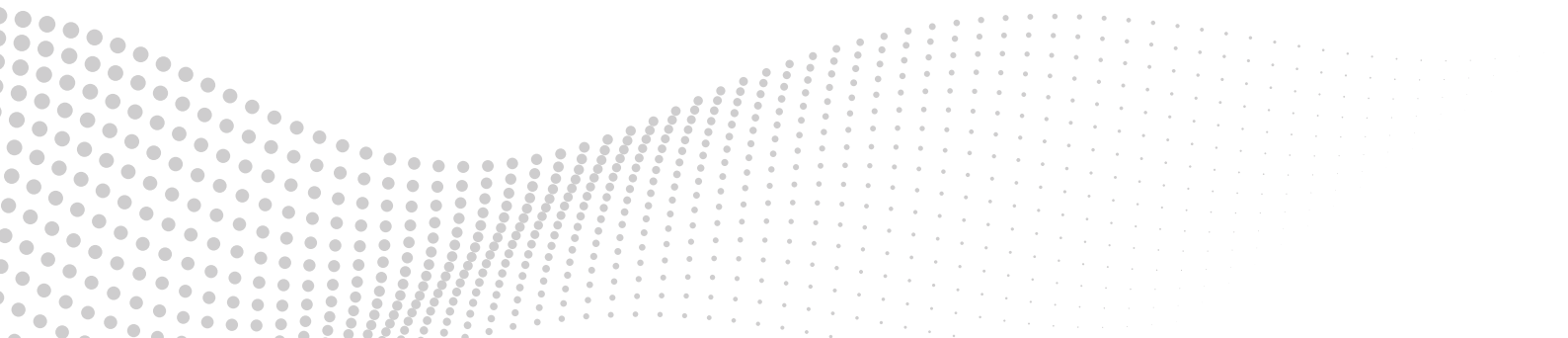
By offering quality, efficiency and value for money in one range, K2 by Kemppi sets a new standard for basic welding.

Inspired by the mighty K2 mountain of the Karakoram range, K2 by Kemppi challenges the welding industry by setting new benchmarks in basic welding that expand capabilities at affordable prices.

The K2 by Kemppi range offers a comprehensive product portfolio of power sources for MMA, MIG and TIG welding. The power sources are bundled with torches by Trafimet, a Kemppi company, located in Italy - the world leader in torches over the last five decades.

Table of contents

| | |
|--|-----------|
| K2 The Basic Welding Expert | 3 |
| Table of contents | 4 |
| The K2 by Kemppi Advantage | 5 |
| K2 Special symbols | 5 |
| Professional performance, simple control | 6 |
| K2 Welding machines | 7 |
| K2 MIG 500 DPULSE | 8 |
| K2 MIG 500 SYN | 9 |
| K2 MIG 250 SYN | 10 |
| K2 TIG 400 DCPULSE | 11 |
| K2 TIG 200 AC/DC | 12 |
| K2 TIG 200 DC | 13 |
| K2 MMA 400 | 14 |
| K2 MMA 200 PFC | 15 |
| Trafimet | 16 |
| MIG welding torches | 16 |
| TIG welding torches | 18 |
| Notes | 20 |



The K2 by Kemppi Advantage

Designed exclusively for efficient basic welding, K2 by Kemppi translates the needs of companies and welders focusing on basic welding into welding products that are effective, simple to use and best value for money. By offering these three qualities under one brand, K2 by Kemppi sets a new standard for basic welding.



Superior Quality



Effortless welding



Value for money



Two-year warranty

The best fit between the job to be done and product features

K2 power sources and Trafimet's quality torches offer just the right features needed to perform basic welding jobs successfully. Together, K2 and Trafimet offer that little extra, which makes the products perform better.

Any welder can use K2

We believe that even basic welding products should be welder friendly. K2 and Trafimet products are straightforward and simple-to-use. Welders learn to use them quickly and can effortlessly deliver consistent welding results.

Investment that delivers

The K2 and Trafimet package offers the most advantageous combination of cost and quality for companies who prefer to run their basic welding operations with products that originate from a well-known and trusted company.

K2 Special symbols



Wireless remote control panel (optional)



Remote control (optional)



Foot pedal control (optional)



Suitable for use with power generators

Professional performance, simple control

Meet basic welding demands efficiently

The distinctive grey casing colour of K2 by Kemppi welding equipment communicates professional welding performance, through simple and easy control. Inverter power source technology features throughout the range, ensuring smooth and regulated welding output and excellent energy efficiency.

Kemppi arc control logics means reliable ignition regardless of mains voltage fluctuations, improving weld quality and reducing rework costs. Each model is a perfect balance of lightweight, portable construction, and tough enough structure to survive the rigors of everyday welding work.

You can download complete product brochures and log into K2 Business Partner channel at k2welding.net



K2 Welding machines –basic but different



Smooth and regulated welding output

Improved energy efficiency

Excellent welding performance

Simple and easy control

Tough and robust

Lightweight and portable



K2 MIG 500 DPULSE

K2 MIG 500 DPULSE is an inverter-based three-phase (IGBT) multi-process welding machine for MIG/MAG with Pulse and Double Pulse, (Lift) TIG, and MMA applications. Experience precise control, sophisticated user functions, accurate welding settings, and real-time monitoring through a clear LCD display.

★ Key benefits

- Integrated 4-roll drive wire feed mechanism with a maximum wire spool capacity of 300mm
- Synergic PULSE/MIG programs for aluminum, mild steel, stainless steel and CuSi



Applications

- Medium and heavy metal fabrication
- Shipyards
- Offshore industry
- Repair applications



Technical Specifications

| K2 MIG 500 DPULSE | | | MIG | TIG | MMA |
|--------------------------|-----------|------------------------|--------|--------|--------|
| Input voltage | V | 3-400 ±10% | | | |
| Frequency | Hz | 50/60 | | | |
| Input current | A | | 40.5 | 33 | 41.5 |
| Input power | kVA | | 28.1 | 22.8 | 28.9 |
| Welding current | A | | 20-500 | 10-500 | 10-500 |
| No-load voltage | V | | 102 | 93 | 97 |
| Power factor | | | 0.764 | 0.744 | 0.768 |
| Efficiency | % | | 90.96 | 89.97 | 91.27 |
| Duty cycle | A | 60% 500 A 100% 410A | | | |
| Wire diameter | mm | 0.8-1.6 | | | |
| Circuit Breaker Standard | | LW31-32B-4AB-04/2 | | | |
| Protection class | | IP23 | | | |
| Dimensions (mm) | L x W x H | 720 x 260 x 500 | | | |
| Weight | kg | 30.5 | | | |



K2 MIG 500 SYN

K2 MIG 500 SYN is an inverter-based three-phase (IGBT) multi-process welding machine for MIG/MAG, (Lift) TIG, and MMA applications. Experience precise control, sophisticated user functions, accurate welding settings, and real-time monitoring through a clear digital display.



Key benefits

- Integrated 4-roll drive wire feed mechanism with a maximum wire spool capacity of 300 mm
- Synergic MIG programs for mild steel, solid, and flux-cored wires
- For standalone power source usage (TIG/MMA), an optional power source panel kit is available.



Applications

- Medium and heavy metal fabrication
- Shipyards
- Offshore industry
- Repair applications



Technical Specifications

| K2 MIG 500 SYN | | | MIG | TIG | MMA |
|--------------------------|-----------|-------------------------|--------|----------|----------|
| Input voltage | V | 3~400±10% | | | |
| Frequency | Hz | 50/60 | | | |
| Input current | A | | 40.5 | 32,5 | 41.3 |
| Input power | kVA | | 28.0 | 22.6 | 28.6 |
| Welding current | A | | 30-500 | 20-500 | 20-500 |
| No-load voltage | V | | 82 | 13 (VRD) | 13 (VRD) |
| Power factor | | | 0.76 | 0.75 | 0.77 |
| Efficiency | % | | 91.3 | 89.6 | 91.1 |
| Duty cycle | A | 60% 500 A 100% 390 A | | | |
| Wire diameter | Ø mm | 0.8-1.6 | | | |
| Circuit Breaker Standard | | LW31-32B-4AB-04/2 | | | |
| Protection class | | IP21S | | | |
| Dimensions (mm) | L x W x H | 640 x 240 x 450 | | | |
| Weight | kg | 35.6 | | | |



K2 MIG 250 SYN

K2 MIG 250 SYN (LCD) MV is a portable single-phase MIG welding power source with built-in wire feeding unit. Multi-process power source for MIG/MAG, (Lift) TIG and MMA welding with clear LCD display.



Key benefits

- Light and medium metal fabrications
- Multiple workshop purposes
- Repair and maintenance applications
- Shipyard installations



Applications

- Inverter-based single-phase machine
- Synergic programs for easy setting of parameters
- 4-roll wire feed mechanism
- Maximum wire spool capacity of 300 mm
- Multi-voltage 110V / 230V



Technical Specifications

| K2 MIG 250 SYN | | | MIG | TIG | MMA |
|------------------|-------------|-----------------------|--------------|--------------|--------------|
| Frequency | HZ | 50/60 | | | |
| Input Voltage | V | 1~110±10% | | | |
| Input Current | A | | 41 | 29 | 30.5 |
| Input Power | kVA | | 4.5 | 3.17 | 3.36 |
| Welding Current | A | | 40-160 | 10-150 | 10-110 |
| Welding Voltage | V | | 16-22.0 | 10.4-16.0 | 20.4-24.4 |
| Duty cycle | 60% 100% | | 160A 125A | 150A 115A | 110A 85A |
| Input Voltage | V | 1~230±10% | | | |
| Input Current | A | | 35 | 27.5 | 39 |
| Input Power | kVA | | 7.99 | 6.28 | 8.97 |
| Welding Current | A | | 40-250 | 10-250 | 10-250 |
| Welding Voltage | V | | 16-26.5 | 10.4-20.0 | 20.4-30.0 |
| Duty cycle | A | 60% 250A 100% 195A | 250A 195A | 250A 195A | 250A 195A |
| No-load Voltage | V | | 99 | 93.5 | 99 |
| Protection class | | IP21S | | | |
| Wire Diameter | Ø mm | 0.8-1.2 | | | |
| Circuit breaker | | LW31-32B 4AB-02/1 | | | |
| Dimensions (mm) | L x W x H | 720 x 260 x 490 | | | |
| Weight | kg | 27.5 | | | |
| Power Factor | | 0.99 | | | |



K2 TIG 400 DCPULSE

K2 TIG 400 DCPULSE is an inverter-based three-phase (IGBT) welding machine designed for medium and heavy-duty professional (HF/Lift) TIG and MMA welding. It features an optional wireless remote-control panel and a foot pedal control.

★ Key benefits

- Control panel (also wireless option) with sophisticated user functions and accurate welding setting and monitoring
- Job (memory) channels for easy recalling of welding parameters
- Heavy duty-cycle, 60 % at 400 A



Applications

- Installation and outfitting
- Repair and maintenance
- Wide range of fabrication workshops
- Chemical and process industry



Technical Specifications

| K2 TIG 400 DCPULSE | | | TIG | MMA |
|--------------------------|-----------|-------------------|----------------|----------------|
| Input voltage | V | 3 – 400 ±10% | | |
| Frequency | Hz | 50/60 | | |
| Input current | A | | 24.1 | 31.8 |
| Input power | kVA | | 17.0 | 21.9 |
| No-load voltage | V | | 72 | 10 |
| Power factor | | | 0.73 | 0.74 |
| Efficiency | % | | 84.6 | 88.9 |
| Duty cycle | A | 60% 100% | 400 A 310 A | 400 A 310 A |
| Upslope/Downslope | S | 0–10 | | |
| Pre/Post Flow | S | 0.1–2.0/ 0.0–10.0 | | |
| Pulse frequency | Hz | 0.5–999 | | |
| Pulse width range | % | 5–95 | | |
| Circuit Breaker Standard | | LW31-32B-4AB-04/2 | | |
| Protection class | | IP23 | | |
| Cooling | | AF | | |
| Dimensions (mm) | L x W x H | 700 x 270 x 480 | | |
| Weight | kg | 30.6 | | |



K2 TIG 200 AC/DC

K2 TIG 200 AC/DC is an inverter-based single-phase high-performance AC/DC Pulse TIG and MMA welding power source. Lightweight and portable. Gives smooth high frequency and contact ignition with arc characteristics for quality welding.



Key benefits

- High frequency and contact (Lift TIG) ignition
- Upslope and downslope functions
- Pre-gas and post-gas timer
- Precise for thin sheet aluminum welding
- User-friendly digital display



Applications

- Workshop and on-site applications
- Installation and outfitting
- Repair and maintenance
- Thin sheet metal and aluminium fabrication workshops
- Chemical and process industry



Technical Specifications

| K2 TIG 200 AC/DC | | | TIG | TIG | MMA | MMA |
|---------------------|-----------|-----------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Input voltage | V | 1~230±10% | AC | DC | AC | DC |
| Rated input current | A | | 33.5 | 34.2 | 38 | 40.5 |
| Rated input power | kVA | | 7.7 | 7.86 | 8.74 | 9.33 |
| Duty cycle | A | | 35% 200A 60% 155A 100% 120A | 25% 200A 60% 130A 100% 100A | 40% 170A 60% 140A 100% 110A | 40% 170A 60% 140A 100% 110A |
| Welding current | A | | 10-200 | 10-200 | 10-170 | 10-170 |
| Down slope | S | 0-10 | | | | |
| No-load voltage | V | 73.5 | | | | |
| Frequency | Hz | 50/60 | | | | |
| Post flow | S | 0-10 | | | | |
| Pulse frequency | HZ | 0.5-200 | | | | |
| Pulse width range | % | 5-95 | | | | |
| AC Balance | | -5+5 | | | | |
| Cooling | | AF | | | | |
| Circuit breaker | | JD03-A1 30A | | | | |
| Insulation class | | IP21S | | | | |
| Dimensions (mm) | L x W x H | 450 x 155 x 286 | | | | |
| Weight | kg | 7.8 | | | | |



K2 TIG 200 DC

K2 TIG 200 DC is an inverter-based single-phase high performance DC Pulse TIG and MMA welding power source. Lightweight and portable. Gives smooth high frequency and contact ignition with arc characteristics for quality welding.

★ Key benefits

- High frequency and contact (Lift TIG) ignition
- Upslope and downslope functions
- Pre-gas and post-gas timer
- Precise for mild steel and stainless-steel welding
- User-friendly digital display



Applications

- Installation and outfitting
- Repair and maintenance
- Thin sheet metal fabrication workshops
- Chemical and process industry



Technical Specifications

| K2 TIG 200 DC | | TIG | | MMA |
|-----------------------|-----------|-----------------|-------------------------|--------------------------------------|
| Input voltage | V | 230 V ± 10% | | |
| Frequency | Hz | 50/60 | | |
| Input current | A | | 30.5 | 44.5 |
| Input power | kVA | | 7.0 | 10.2 |
| No-load voltage | V | | 64 | 64 |
| Power factor | | | 0.6 | 0.6 |
| Duty cycle | A | | 60% 200 A 100% 155 A | 40% 200 A 60% 165 A 100% 125 A |
| Welding current range | A | 10-200 | | |
| Upslope/Downslope | S | 0-10 | | |
| Pre/Post Flow | S | 0-2/0-10 | | |
| Pulse frequency | Hz | 0.5-200 | | |
| Pulse width range | % | 5-95 | | |
| Protection class | | IP21S | | |
| Cooling | | AF | | |
| Dimensions (mm) | L x W x H | 450 x 155 x 286 | | |
| Weight | kg | 6.1 | | |



K2 MMA 400

K2 MMA 400 An inverter-based, three-phase, high-performance MMA and Lift TIG welding power source suitable for all types of MMA electrodes. Includes advanced functions for better arc ignition and arc force control.

★ Key benefits

- Hot start and arc force adjustment for optimized starts and arc control
- Simple user panel for easy parameter settings
- Suited for cellulosic electrodes
- Optional remote control



Applications

- Wide range of fabrication workshops
- On-site applications
- Offshore industry
- Water and gas pipelines



Technical Specifications

| K2 MMA 400 | | | MMA | TIG |
|----------------------|-----------|-----------------------|------|------|
| Power Supply Voltage | V | 3~400V±10% | | |
| No-load voltage | V | 73.5 | | |
| Frequency | Hz | 50/60 | | |
| Rated input current | A | | 32 | 24 |
| Rated input power | kVA | | 22.1 | 16.6 |
| No Load Voltage | V | | 93.4 | 92 |
| Duty cycle | A | 60% 400A 100% 310A | | |
| Welding current | A | 20-400 | | |
| Efficiency | % | ≥86 | | |
| Power Factor | | 0.7 | | |
| Protection class | | IP21S | | |
| Cooling | | AF | | |
| Weight | kg | 25.7 | | |
| Dimensions (mm) | L x W x H | 570x240x490 | | |
| Electrode Diameter | Ø mm | 1.6-6.0 | | |
| Electrode Type | | 6013,7018, E6010 etc. | | |



K2 MMA 200 PFC

K2 MMA 200 PFC is an inverter-based single-phased MMA and (Lift) TIG power source. Lightweight and portable machine which is suitable for all types of MMA electrodes.

★ Key benefits

- Built-in anti-stick, hot start and arc force for optimized starts and arc control
- High duty-cycle, 40% at 200 A
- Multi-voltage 110V / 230V



Applications

- Repair and maintenance
- Agriculture
- Metal workshops
- Chemical and process industry



Technical Specifications

| K2 MMA 200 PFC | | MMA | | TIG |
|-----------------------|-----------|---------------------------------|--|--|
| Input voltage | V | 110 V 230 V | 30.5 28.5 | 18.5 19.5 |
| Rated input power | kVA | 110 V 230 V | 3.33 6.53 | 2.03 4.42 |
| Duty cycle | A | | 110 V: 40 % 110 A 110 V: 60 % 90 A 110 V: 100 % 70 A | 230 V: 40 % 200 A 230 V: 60 % 160 A 230 V: 100 % 130 A |
| Welding current range | A | 110 V: 10-110 230 V: 10-200 | | |
| Power factor | | 0.99 | | |
| No-load voltage | V | 70 | | |
| Protection class | | IP21S | | |
| Electrode diameter | Ø mm | 1.6-5.0 | | |
| Electrode type | | 6010, 6011, 6013, 7018, etc. | | |
| Cooling | | AF | | |
| Dimensions (mm) | L x W x H | 450 x 160 x 310 | | |
| Weight | kg | 6.5 | | |

TRAFIMET MIG WELDING TORCHES

K2 by Kemppi welding machines are designed to be used together with Trafimet welding torches. For 50 years, Trafimet has been known worldwide for its wide range of products specializing in welding and cutting torches. Trafimet represents efficiency, quality, innovation, and attention to serving customer needs. In addition to currently being a member of the international Kemppi Oy Group, Trafimet to this day maintains its strong “made in Italy” imprint, staying true to its origins and history. Trafimet represents a well-known brand appreciated by leading industrial companies in the field of welding and cutting.

The torches are manufactured by Kemppi WUXI factory and guarantee maximum performance, thanks to the right choice and high quality of raw materials and precise production.



TRAFIMET EXTREMIG 36 & 50

EXTREMIG MIG welding torches are developed to combine functional characteristics with the new handle design. The newly designed handle has been developed to obtain balance during welding operations. The **EXTREMIG** MIG welding torch is supplied with an extended trigger.

Resistant and flexible cable, created for better performances. The new material composition of the cable ensure resistance and flexibility against wear, weather and chemical substances.

Ergonomic ball-joint allows moving around freely. The cable is connected to the torch by a ball-joint which allows better balance of the handle, reducing the weight and increasing the flexibility. This system increases the product lifecycle of the torch cable and of the electric connection.

EXTREMIG 36 air-cooled

Air-cooled MIG torch for daily welding applications, equipped with coaxial cable, M8 contact tip and Euro connector.

| TECHNICAL SPECIFICATIONS | EXTREMIG 36 | |
|--------------------------|---------------------------------------|--------------|
| Cooling | Air | |
| Weight (1m) | 1,6 kg / 3,53 lb | 3,53 lb |
| Voltage class | 113 | |
| Electrode diameter | 0,6÷1,6 mm | 0,023"÷1/16" |
| Duty cycle | (60%) 330A CO ₂ - 300A Mix | |
| Length | 3/5 m | |
| Connector | Euro | |

EXTREMIG 50 air-cooled

Air cooled MIG torch for daily welding jobs, equipped with coaxial cable, M8 contact tip and Euro connector. Resistant against higher duty cycles, it is a hybrid combination built on an air-cooled torch platform and using the same set of consumables as normal water-cooled torch.

| TECHNICAL SPECIFICATIONS | EXTREMIG 50 | |
|--------------------------|---------------------------------------|--------------|
| Cooling | Air | |
| Weight (1m) | 1,8 kg | 3,97 lb |
| Voltage class | 113 | 113 |
| Electrode diameter | 1,0÷2,4 mm | 0,040"÷3/32" |
| Duty cycle | (60%) 330A CO ₂ - 300A Mix | |
| Length | 3/5 m | |
| Connector | Euro | |

EXTREMIG 500 water-cooled

Water cooled MIG torch for basic welding jobs, M8 contact tip and Euro connector. Resistant against higher duty cycles, it is a hybrid combination built on an air-cooled torch platform and using the same set of consumables as normal water-cooled torch.

| TECHNICAL SPECIFICATIONS | EXTREMIG 500 | |
|--------------------------|--|--------------|
| Cooling | Water | |
| Weight (1m) | 1,45 kg | 3,22 lb |
| Voltage class | 113 | 113 |
| Electrode diameter | 1,0 ÷ 2,4 mm | 0,040"÷3/32" |
| Duty cycle | (100%) 500A CO ₂ - 450A Mix | |
| Length | 3/5 m | |
| Connector | Euro | |

TRAFIMET TIG WELDING TORCHES

EXPERTIG



The **EXPERTIG** has a fresh and modern design, the handle is the result of a study of balanced weight, necessary to be able to weld easily and effortlessly. The **EXPERTIG** range includes air- and water-cooled torches.

Ergonomic ball-joint experience freedom of movement. The cable is connected to the torch with a ball joint, which lightens the weight of the handle and allows flexible handling. The ball joint also increases the lifetime of the cable set by protecting the electric control cable.

EXPERTIG 18 water-cooled

Water-cooled TIG torch for basic welding jobs, equipped with TSK connector.

| TECHNICAL SPECIFICATIONS | EXPERTIG 18 | |
|--------------------------|----------------|--------------|
| Cooling | Water | |
| Weight (1m) | 0,90 kg | 1,98 lb |
| Voltage class | 113 | |
| Type of gas | Argon | |
| Electrode diameter | 0,5÷4,0 mm | 0,020"÷5/32" |
| Duty cycle (100%) | 320 DC-230A AC | |
| Length | 4/8 m | |
| Connector | TSK 50 - ¼ G | |



EXPERTIG 26 air-cooled

Air-cooled TIG torch for basic welding jobs, equipped with standard neck, with TSK connector.

| TECHNICAL SPECIFICATIONS | EXPERTIG 26 | |
|--------------------------|--------------------|--------------|
| Cooling | Air | |
| Weight (1m) | 0,80 kg | 1,76 lb |
| Voltage class | 113 | |
| Type of gas | Argon | |
| Electrode diameter | 0,5÷4,0 mm | 0,020"÷5/32" |
| Duty cycle (35%) | 180 A DC - 130A AC | |
| Length | 4/8 m | |
| Connector | TSK 50 - ¼ G | |

EXPERTIG 26 with flexible torch head air-cooled

Air-cooled TIG torch for habitual welding jobs, equipped with flex neck, with TSK connector.

| TECHNICAL SPECIFICATIONS | EXPERTIG 26 FLEX | |
|--------------------------|--------------------|--------------|
| Cooling | Air | |
| Weight (1m) | 0,80 kg | 1,76 lb |
| Voltage class | 113 | |
| Type of gas | Argon | |
| Electrode diameter | 0,5÷4,0 mm | 0,020"÷5/32" |
| Duty cycle (35%) | 180 A DC - 130A AC | |
| Length | 4/8 m | |
| Connector | TSK 50 - ¼ G | |



The Basic Welding Expert

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k2welding.net