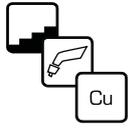


CONTENTS



OVERVIEW OF FUNCTIONS



MMA INVERTERS
PEGAS, ALFIN



TIG INVERTERS
ALFIN TIG HF, PEGAS T HF



AC/DC INVERTERS
ALFIN AC/DC



MULTIFUNCTION INVERTERS
ALFIN MF, ALFIN MPK



OVERVIEW OF FEEDERS AND MIG/MAG
CONTROL BOARDS



STEP-SWITCHED MIG/MAG MACHINES
ABC, ALF, ATA



CHOPPERS
A CHOPPER



PULSE
ATA PULSE 2 MOBIL, ATA PULSE 2



PLASMA
APC-IN, APC CHOPPER CUT

OVERVIEW OF FUNCTIONS

| | | | |
|---|--|---|--|
|  | 1 x 230 V power supply. |  | Synergic mode can be used for pulse welding as well. |
|  | 3 x 400 V power supply. |  | Water-cooling unit. |
|  | MMA welding (manual electrode welding). |  | Machine can be restored to default factory settings - RESET. |
|  | TIG welding (tungsten electrode in inert gas). |  | Inverter welding current source. |
|  | The machine is designed for MIG/MAG welding using filler-wire and shielding gas also known as CO ₂ welding. |  | The HOTSTART function facilitates the arc ignition by using high starting current for a predefined period of time. |
|  | Quality all-copper transformer. |  | The ARCFORCE technology automatically levels voltage fluctuations in the arc caused by the movement of welder's hand. |
|  | Machine power is regulated in steps by connecting the various transformer taps. |  | The ANTISTICK technology prevents the electrode from sticking to the weld-piece. |
|  | Digital amperemeter and voltmeter. |  | The BILEVEL technology allows the welder to switch between two predefined currents during welding. |
|  | Adjustable starting speed of the wire feeder allows easier arc ignition and beginning of welding. |  | The LIFT ARC technology enables easy arc ignition by switching on the torch while it touches the weld-piece and then lifting it. |
|  | Adjustable welding wire burn-back time. |  | Arc ignition by high frequency current. |
|  | The pre-gas time before arc ignition is adjustable. |  | DC - directed current welding. |
|  | The post-gas time after finishing welding is adjustable. |  | AC/DC - directed or alternate current. |
|  | Pre-gas and post-gas times are adjustable. |  | Adjustable slope-up time from the starting current to the working current. |
|  | Welding in 2-stroke and 4-stroke mode. |  | Adjustable down-slope time from working current to end current. |
|  | Automatic spot or seam welding in pre-set intervals. |  | Thermal protection that switches the machine off when overheating occurs. |
|  | Contact arc ignition by touching the weld-piece with the tungsten electrode. |  | Pulsed current welding. |
|  | The machine is equipped with a memory to store your preferred parameters for various welding tasks (jobs). |  | AC Pulse - welding with pulsed alternate current. |
|  | Electronic feedback of wire feeder speed. |  | Remote control is supported. |
|  | Synergic mode allows you to set a single parameter and the machine calculates all other parameters accordingly. |  | Forced air cooling with ventilators. |
| | |  | Lightweight and portable machine. |

PEGAS 130 E

PEGAS 160 E

PEGAS 200 E



FEATURES

- IGBT technology
- Compact, lightweight, portable
- ANTISTICK, ARCFORCE, HOT-START
- Intelligent protection against overvoltage, low voltage, overcurrent and overheating
- Protected and POWER GENERATOR compatible
- Cable connectors 35-50 mm² (PEGAS 130 16-25mm²).

FUNCTIONS



TECHNICAL DATA

| Machine type | PEGAS 130 E | PEGAS 160 E | PEGAS 200 E |
|--------------------------------|------------------------|------------------------|------------------------|
| Mains voltage | 1x230V~ ±10% / 50-60Hz | 1x230V~ ±10% / 50-60Hz | 1x230V~ ±10% / 50-60Hz |
| Mains protection | 16A DELAYED | 16A DELAYED | 16A DELAYED |
| Effectivity | > 80% | > 80% | > 80% |
| Max. input current | 27,0A | 31,0A | 37,5A |
| Max. input power | 3,6kW | 5,0kW | 6,6kW |
| Open circuit voltage | 66V | 62V | 63,6V |
| Welding current range | 5-130A | 5-160A | 5-200A |
| Duty cycle 100% - 40°C/10 min. | 50A | 80A | 100A |
| Duty cycle 100% - 25°C/10 min. | 80A | 110A | 130A |
| Max. duty cycle - 40°C/10 min. | 20% | 25% | 25% |
| Max. duty cycle - 25°C/10 min. | 35% | 35% | 35% |
| Insulation class | F | F | F |
| Protection rating | IP23 | IP23 | IP23 |
| Construction norms | EN60974-1/EN50199 | EN60974-1/EN50199 | EN60974-1/EN50199 |
| Dimensions (W x L x H) | 120 x 280 x 220 | 140 x 310 x 230 mm | 140 x 345 x 230 |
| Weight | 4kg | 6 kg | 7,5 kg |
| Electrode diameter | ø 2.5, ø 3.2 | ø 2.5, ø 3.2, ø 4.0 | ø 2.5, ø 3.2, ø 4.0 |
| Electrode type | 6013, 7018, ... | 6011, 6013, 7018, ... | 6011, 6013, 7018, ... |

RECOMMENDED ACCESSORIES



HELMET



TIG TORCH



CABLES



CASE

ALFIN 150 TP

ALFIN 160

ALFIN 200

ALFIN 250



ALFIN 150 TP



ALFIN 160/200

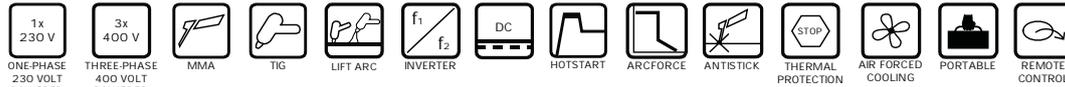
FEATURES

- IGBT technology
- ANTISTICK, ARC-FORCE, HOT-START
- Welding inverter for MMA and TIG LIFT ARC welding
- TP - TOTAL PROTECTION (ALFIN 150 TP)



ALFIN 250

FUNCTIONS



| | 1x 230 V ONE-PHASE 230 VOLT POWERED | 3x 400 V THREE-PHASE 400 VOLT POWERED | MMA | TIG | LIFT ARC | INVERTER | DC | HOTSTART | ARCFORCE | ANTISTICK | THERMAL PROTECTION | AIR FORCED COOLING | PORTABLE | REMOTE CONTROL |
|--------------|--|--|-----|-----|----------|----------|----|----------|----------|-----------|-----------------------|-----------------------|----------|-------------------|
| ALFIN 150 TP | ☺ | ✗ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ✗ |
| ALFIN 160 | ☺ | ✗ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| ALFIN 200 | ✗ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| ALFIN 250 | ✗ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |

TECHNICAL DATA

| Machine type | ALFIN 150 TP | | | | ALFIN 160 | | ALFIN 200 | | ALFIN 250 | | | |
|------------------------|---------------------------|-------|-------|-------|------------------------|-------|------------------------|-------|------------------------|-------|------|-------|
| Input voltage | 1 x 230V~ ± 15% / 50-60Hz | | | | 1x230V~ ±15% / 50-60Hz | | 3x400V~ ±15% / 50-60Hz | | 3x400V~ ±15% / 50-60Hz | | | |
| Mains protection | 16A DELAYED | | | | 25A DELAYED | | 10A DELAYED | | 20A DELAYED | | | |
| Effectivity | 0,85 | | | | 0,85 | | 0,85 | | 0,85 | | | |
| Welding method | MMA | | TIG | | MMA | | MMA | | MMA | | TIG | |
| Duty cycle | 35% | 100% | 35% | 100% | 40% | 100% | 40% | 100% | 40% | 100% | 40% | 100% |
| Welding current | 140A | 100A | 150A | 100A | 160A | 130A | 200A | 130A | 250A | 160A | 250A | 160A |
| Working voltage | 25,6V | 24,0V | 16,0V | 14,0V | 26,4V | 25,2V | 28V | 25,2V | 30V | 26,4V | 20V | 16,4V |
| Open circuit voltage | 94V | | 11V | | 65V | | 65V | | 76V | | 11V | |
| Insulation class | H | | | | H | | H | | H | | | |
| Protection rating | IP23 | | | | IP 23 | | IP 23 | | IP 23 | | | |
| Cooling | AF | | | | AF | | AF | | AF | | | |
| Construction norms | EN 60974-1/-10 | | | | EN 60974-1 / EN 50199 | | EN 60974-1 / EN 50199 | | EN 60974-1 / EN 50199 | | | |
| Dimensions (W x L x H) | 120 x 310 x 215mm | | | | 160 x 400 x 260mm | | 160 x 400 x 260mm | | 230 x 460 x 325mm | | | |
| Weight | 4,4Kg | | | | 9 Kg | | 10 Kg | | 16 Kg | | | |

RECOMMENDED ACCESSORIES



HELMET



TIG TORCH



CABLES



REMOTE CONTROL



TRANSFORM. VALVE

ALFIN 150 TIG HF

PEGAS 160 T HF



ALFIN 150 TIG HF

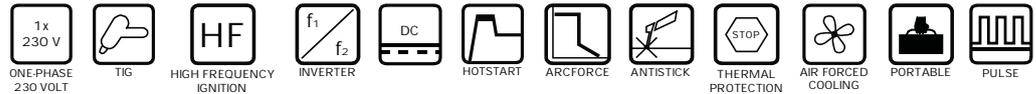


PEGAS 160 T HF

FEATURES

- Welding inverter for TIG and MMA welding
- IGBT technology
- TIG Pulse (ALFIN 150 TIG HF)

FUNCTIONS



| | 1x 230 V | TIG | HIGH FREQUENCY IGNITION | INVERTER | DC | HOTSTART | ARCFORCE | ANTISTICK | THERMAL PROTECTION | AIR FORCED COOLING | PORTABLE | PULSE |
|------------------|----------|-----|-------------------------|----------|----|----------|----------|-----------|--------------------|--------------------|----------|-------|
| ALFIN 150 TIG HF | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| PEGAS 160 T HF | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ✗ |

TECHNICAL DATA

| Machine type | ALFIN 150 TIG HF | | | | PEGAS 160 T HF | | | |
|------------------------|---------------------------|--------|--------|--------|------------------------|------|--------|------|
| Welding current range | 5 - 150A | | | | 5-160A | | | |
| Input voltage | 1 x 230V~ ± 15% / 50-60Hz | | | | 1x230V~ ±10% / 50-60Hz | | | |
| Mains protection | 16A DELAYED | | | | 16A DELAYED | | | |
| Effectivity | 0,85 | | | | > 80% | | | |
| Welding method | MMA | | TIG | | MMA | | TIG | |
| Duty cycle | 35% | 100% | 35% | 100% | 25% | 40% | 60% | 100% |
| Max. effective current | 5,6KVA | 3,9KVA | 4,1KVA | 2,5KVA | 3,3 kW | | 5,3 kW | |
| Max. input current | 24,3A | 17,0A | 17,8A | 10,9A | - | | | |
| Welding current | 140A | 100A | 150A | 100A | 160A | 120A | 100A | 80A |
| Working voltage | 25,6V | 24,0V | 16,0V | 14,0V | - | | | |
| Open circuit voltage | 94V | | 10V | | 58 V | | | |
| Insulation class | H | | | | F | | | |
| Protection rating | IP23 | | | | IP 23 | | | |
| Cooling | AF | | | | AF | | | |
| Construction norms | EN 60974-1/-10 | | | | EN60974-1/EN50199 | | | |
| Dimensions (W x L x H) | 120 x 360 x 215mm | | | | 130 x 450 x 230 mm | | | |
| Weight | 5,4Kg | | | | 6,5 kg | | | |

RECOMMENDED ACCESSORIES



HELMET



TIG TORCH



CABLES



CASE



TRANSFORM. VALVE

ALFIN 170, 200 TIG HF ALFIN 281 W TIG HF Synergy



ALFIN 170/200 TIG HF

FEATURES

- Welding inverter for TIG and MMA welding.

ALFIN 170 a 200 TIG HF

- TIG pulse
- Two currents - BILEVEL
- Remote control
- IGBT technology



ALFIN 281 TIG HF

ALFIN 281 W TIG HF Synergy

- TIG pulse
- Two currents - BILEVEL
- Synergic pulse
- 50 memory positions

FUNCTIONS



| | ONE PHASE 230 VOLT POWERED | THREE PHASE 400 VOLT POWERED | TIG | HIGH FREQUENCY IGNITION | INVERTER | DC | HOTSTART | ARCFORCE | ANTISTICK | THERMAL PROTECTION | PORTABLE | PULSE | SYNERGIC PULSE | JOB STORE | REMOTE CONTROL |
|----------------------|----------------------------|------------------------------|-----|-------------------------|----------|----|----------|----------|-----------|--------------------|----------|-------|----------------|-----------|----------------|
| ALFIN 170 TIG HF | ☺ | ✗ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ✗ | ✗ | ☺ |
| ALFIN 200 TIG HF | ✗ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ✗ | ✗ | ☺ |
| ALFIN 281 TIG HF SYN | ✗ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ✗ | ☺ | ☺ | ☺ | ☺ |

TECHNICAL DATA

| Machine type | ALFIN 170 TIG HF | | | | ALFIN 200 TIG HF | | | | ALFIN 281 W TIG HF Synergy | | | |
|------------------------|------------------------|--------|--------|-------|------------------------|-------|-------|--------|----------------------------|--------|---------|--------|
| Welding current range | 5 – 170A | | | | 5 – 200A | | | | 5 – 280A | | | |
| Input voltage | 1x230V~ ±15% / 50-60Hz | | | | 3x400V~ ±15% / 50-60Hz | | | | 3x400V~ ±15% / 50-60Hz | | | |
| Mains protection | 16A DELAYED | | | | 10A DELAYED | | | | 20A DELAYED | | | |
| Effectivity | 0,85 | | | | 0,85 | | | | 0,85 | | | |
| Welding method | TIG | | MMA | | TIG | | MMA | | TIG | | MMA | |
| Duty cycle | 40% | 100% | 40% | 100% | 40% | 100% | 40% | 100% | 50% | 100% | 40% | 100% |
| Max. effective current | 5,1KVA | 3,4KVA | 6,3KVA | 5KVA | - | - | 10KVA | 6,2KVA | 9,6KVA | 5,8KVA | 12,1KVA | 7,3KVA |
| Max. input current | 22,4A | 15A | 27,8A | 21,8A | - | - | 14,5A | 9A | 14A | 17,5A | | |
| Welding current | 170A | 120A | 140A | 120A | 200A | 130A | 200A | 130A | 280A | 200A | 250A | 160A |
| Working voltage | 16,8V | 14,8V | 25,6V | 24,8V | 18V | 15,2V | 28V | 25,2V | 21,2V | 18V | 30V | 26,4V |
| Open circuit voltage | 14V | | 65V | | 14V | | 65V | | 9V | | 76V | |
| Insulation class | H | | | | H | | | | H | | | |
| Protection rating | IP 23 | | | | IP 23 | | | | IP 23 | | | |
| Cooling | AF | | | | AF | | | | AF | | | |
| Construction norms | EN 60974-1 / EN 50199 | | | | EN 60974-1 / EN 50199 | | | | EN 60974-1 / EN 50199 | | | |
| Dimensions (W x L x H) | 160 x 400 x 260mm | | | | 160 x 400 x 260mm | | | | 230 x 530 x 325mm | | | |
| Weight | 10 Kg | | | | 10 Kg | | | | 20 Kg | | | |

RECOMMENDED ACCESSORIES



HELMET



TIG TORCH



CABLES



REMOTE CONTROL



REMOTE CONTROL PEDAL



TRANSFORM. VALVE

ALFIN 200 AC/DC ALFIN 220 AC/DC ALFIN 280 AC/DC ALFIN 281 AC/DC



ALFIN 200/220 AC/DC



ALFIN 280/281 AC/DC

FEATURES

- Welding inverter for welding steel, stainless steel and aluminium by TIG AC/DC and MMA methods.
- TIG pulse
- BILEVEL - two currents
- IGBT technology
- Remote control

FUNCTIONS

| ALFIN 200 AC/DC | ☺ | ✗ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ✗ | ✗ | ✗ | ☺ |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALFIN 220 AC/DC | ☺ | ✗ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| ALFIN 280 AC/DC | ✗ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ✗ | ✗ | ✗ | ☺ |
| ALFIN 281 AC/DC | ✗ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |

TECHNICAL DATA

| Machine type | ALFIN 200 AC/DC | | | | ALFIN 220 AC/DC | | | | ALFIN 280 AC/DC | | | | ALFIN 281 AC/DC | | | |
|------------------------|------------------------|------|--------|-------|----------------------------|--------|--------|--------|-----------------------|--------|---------|--------|-----------------------|--------|---------|--------|
| Input voltage | 1x230V~ ±15% / 50-60Hz | | | | 1 x 230V~ ± 15% / 50-60 Hz | | | | 3x400V~±15%/50-60Hz | | | | 3x400V~±15%/50-60Hz | | | |
| Mains protection | 16A DELAYED | | | | 16A DELAYED | | | | 20A DELAYED | | | | 25A DELAYED | | | |
| Welding method | TIG | | MMA | | TIG | | MMA | | TIG | | MMA | | TIG | | MMA | |
| Duty cycle | 30% | 100% | 40% | 100% | 35% | 100% | 40% | 100% | 35% | 100% | 40% | 100% | 35% | 100% | 40% | 100% |
| Welding current | 200A | 130A | 150A | 120A | 220A | 160A | 180A | 120A | 280A | 200A | 250A | 180A | 280A | 200A | 250A | 180A |
| Working voltage | 18,0V | 15V | 26V | 23,6V | 18,8V | 16,4V | 27,2V | 24,8V | 21,2V | 18V | 30V | 27,2V | 21,2V | 18V | 30V | 27,2V |
| Max. effective current | 6,3KVA | | 6,1KVA | | 5,4KVA | 3,6KVA | 6,2KVA | 3,6KVA | 10,7KVA | 6,9KVA | 12,4KVA | 8,9KVA | 10,9KVA | 7,6KVA | 12,7KVA | 9,2KVA |
| Max. input current | 27,4A | | 26,5A | | 25,7A | 16,3A | 30,0A | 16,3A | 15,5A | | 18A | | 15,8A | 11,0A | 18,4A | 13,3A |
| Max. effective current | 15,0A | | 16,7A | | 15,2A | 16,3A | 18,9A | 16,3A | 9,2A | | 11,4A | | 9,3A | 11,0A | 11,6A | 13,3A |
| Open circuit voltage | 10V | | 88V | | 12V | | 80V | | 10V | | 77V | | 11V | | 78V | |
| Insulation class | H | | | | H | | | | H | | | | H | | | |
| Protection rating | IP 23 | | | | IP23 | | | | IP 23 | | | | IP 23 | | | |
| Cooling | AF | | | | AF | | | | AF | | | | AF | | | |
| Construction norms | EN 60974-1 / EN 50199 | | | | EN 60974-1/-10 | | | | EN 60974-1 / EN 50199 | | | | EN 60974-1 / EN 50199 | | | |
| Dimensions (W x L x H) | 230 x 460 x 325mm | | | | 230 x 460 x 325mm | | | | 290 x 670 x 460mm | | | | 290 x 670 x 460 mm | | | |
| Weight | 16,0 Kg | | | | 18,0Kg | | | | 40,5 Kg | | | | 40,5 kg | | | |

RECOMMENDED ACCESSORIES



HELMET



TIG TORCH



CABLES



REMOTE CONTROL



REMOTE CONTROL PEDAL



TRANSFORM. VALVE

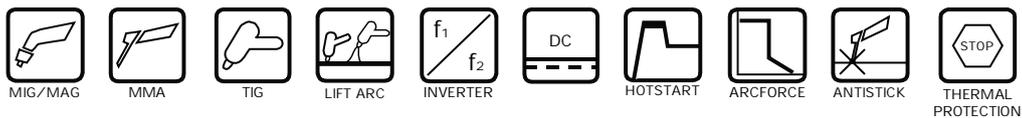
ALFIN 161 MF



FEATURES

- Welding inverter for MIG/MAG, TIG and MMA welding IGBT technology
- MAG welding with self-shielding wire
- Welds with electrodes up to diameter of 4,0 mm

FUNCTIONS



| | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|
| ALFIN 161 MF | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
|--------------|---|---|---|---|---|---|---|---|---|---|

TECHNICAL DATA

| Machine type | ALFIN 161 MF | | | | | |
|------------------------|------------------------|-------|-------|------|-------|------|
| Welding current range | 5 – 160A | | | | | |
| Input voltage | 1x230V~ ±15% / 50-60Hz | | | | | |
| Mains protection | 16A DELAYED | | | | | |
| Effectivity | 0,85 | | | | | |
| Max. input current | 27A | | | | | |
| Max. effective current | 16A | | | | | |
| Max. effective current | 3,7KVA | | | | | |
| Welding method | MIG/MAG | | MMA | | TIG | |
| Duty cycle | 35% | 100% | 35% | 100% | 35% | 100% |
| Welding current | 160A | 110A | 140A | 100A | 140A | 100A |
| Working voltage | 22V | 19,5V | 25,6V | 24V | 15,6V | 14V |
| Open circuit voltage | 10V | | 91V | | 10V | |
| Insulation class | B | | | | | |
| Protection rating | IP 23 | | | | | |
| Cooling | AF | | | | | |
| Construction norms | EN 60974-1 / EN 50199 | | | | | |
| Dimensions (W x L x H) | 230 x 460 x 325mm | | | | | |
| Weight | 12 Kg | | | | | |

RECOMMENDED ACCESSORIES



HELMET



TIG TORCH



MIG/MAG
STANDARD
TORCH



CABLES



TRANSFORM.
VALVE

MIG/MAG CONTROL BOARDS

| Feature | BASIC | MINOR 2 | MAJOR | SYNERGY |
|---------------------------------------|-------|---------|-------|---------|
| A + V meter | X | X | 😊 | 😊 |
| Wire initial speed (Soft Start) | X | X | 😊 | 😊 |
| Advice of the parameter settings | X | X | X | 😊 |
| Electronic feedback of the wire speed | X | 😊 | 😊 | 😊 |
| 2 stroke / 4 stroke | 😊 | 😊 | 😊 | 😊 |
| Adjustable post and pre-gas time | X | 😊 | 😊 | 😊 |
| Spot and seam welding | 😊 | 😊 | 😊 | 😊 |
| Adjustable burn-back time | 😊 | 😊 | 😊 | 😊 |
| UP-DOWN torch support | X | 😊 | 😊 | 😊 |

MIG/MAG FEEDERS



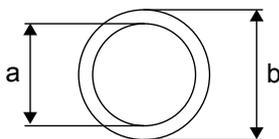
TWO-ROLL FEEDER

Standard in ABC and ALF machines.



FOUR-ROLL FEEDER

Standard in ATA 400-600 HD and A CHOPPER machines.

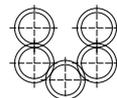


PS 2(W)
2-roll



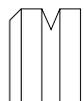
a = 22 mm
b = 30 mm

PS 4(W)
4-roll



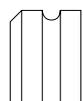
a = 22 mm
b = 30 mm

Steel wire



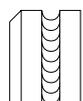
Ø 0.6 - 2.4 mm

Aluminium wire



Ø 0.8 - 2.0 mm

Tube wire



Ø 0.8 - 2.4 mm

ABC 155 FIX

ABC 160

ABC 164 HD

ABC 164 FIX



ABC 155 FIX



ABC 160

FEATURES

- MIG/MAG welding machine
- All-copper transformers
- The FIX version features a fixed torch
- The EURO version utilizes an EURO torch connector



ABC 164 HD
(ABC 164 FIX)

FUNCTIONS



| | MIG/MAG | ONE-PHASE 230 VOLT POWERED | STEP-SWITCHED VOLTAGE | ALL-COPPER TRANSFORMER | ADJUSTABLE BURN BACK TIME | SPOT AND INTERVAL WELDING | 2-STROKE 4-STROKE |
|---------|---------|----------------------------------|--------------------------|---------------------------|------------------------------|---------------------------------|----------------------|
| ABC 155 | ☺ | ☺ | ☺ | ☺ | ✗ | ✗ | ✗ |
| ABC 160 | ☺ | ☺ | ☺ | ☺ | ✗ | ✗ | ✗ |
| ABC 164 | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |

APPLICABLE CONTROL BOARDS



BASIC

TECHNICAL DATA

| Machine type | ABC 155 FIX | | | ABC 160 | | | ABC 164 HD/FIX | | |
|------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|--------|--------|
| Input voltage | 1x230V ~ ±15% / 50-60Hz | | | 1x230V ~ ±15% / 50-60Hz | | | 1x230V ~ ±15% / 50-60Hz | | |
| Mains protection | 16A DELAYED | | | 16A DELAYED | | | 16A DELAYED | | |
| Power factor cos φ | 0,9 | | | 0,9 | | | 0,9 | | |
| Welding current | 20A - 155A | | | 20A - 155A | | | 20A - 160A | | |
| Welding method | MIG | | | MIG | | | MIG | | |
| Duty cycle | 20% | 60% | 100% | 20% | 60% | 100% | 20% | 60% | 100% |
| Welding current | 155A | 80A | 55A | 155A | 80A | 55A | 160A | 80A | 55A |
| Working voltage | 21,8V | 18V | 16,7V | 21,8V | 18V | 16,7V | 21,8V | 18V | 16,7V |
| Max. effective current | 4,4KVA | 1,9KVA | 1,3KVA | 4,8KVA | 2,1KVA | 1,3KVA | 4,6KVA | 1,9KVA | 1,3KVA |
| Max. input current | 19A | 8,2A | 5,7A | 22,1A | 9,4A | 5,9A | 20A | 8,2A | 5,7A |
| Open circuit voltage | 21,7V - 37,3V | | | 22,5V - 41,5V | | | 21,7V - 37,3V | | |
| Insulation class | F | | | F | | | F | | |
| Protection rating | IP 21 | | | IP 21 | | | IP 21 | | |
| Cooling | AF | | | AF | | | AF | | |
| Construction norms | EN 60974-1 / EN 50199 | | | EN 60974-1 / EN 50199 | | | EN 60974-1 / EN 50199 | | |
| Dimensions (W x L x H) | 370 x 750 x 600 mm | | | 440 x 800 x 650 mm | | | 470 x 841 x 556 mm | | |
| Weight | 41 Kg | | | 40 Kg | | | 48 Kg | | |

RECOMMENDED ACCESSORIES



HELMET



MIG/MAG
STANDARD
TORCH



TRANSFORM.
VALVE

STEP-SWITCHED MIG/MAG MACHINES

ALF 180 - 220 HD

FEATURES

- MIG/MAG welding machine
- Heavy duty assembled casing - HD
- All-copper transformers
- Seven voltage adjustment steps
- EURO torch connector
- Gas pre-heater



FUNCTIONS



MIG/MAG



3x
400 V
THREE-PHASE
400 VOLT
POWERED



STEP-SWITCHED
VOLTAGE



ALL-COPPER
TRANSFORMER



BURN
BACK
ADJUSTABLE
BURN BACK TIME



SPOT
SPOT AND
INTERVAL
WELDING



2-STROKE
4-STROKE



PRE-GAS
AND
POST-GAS



SOFT
START
ADJUSTABLE
INITIAL
WIRE SPEED



ELECTRONIC
FEEDBACK

APPLICABLE CONTROL BOARDS

STANDARD



BASIC

OPTIONAL



MINOR 2



MAJOR

TECHNICAL DATA

| Machine type | ALF 180 HD | | | ALF 220 HD | | |
|------------------------|--------------------|--------|--------|--------------|--------|--------|
| Input voltage | 3x400V/50Hz | | | 3x400V/50Hz | | |
| Mains protection | 10A DELAYED | | | 16A DELAYED | | |
| Power factor cos φ | 0,8 | | | | | |
| Welding current range | 30 - 190 A | | | 30 - 210 A | | |
| Duty cycle | 30% | 60% | 100% | 30% | 60% | 100% |
| Welding current | 190 A | 140 A | 110 A | 210 A | 170 A | 150 A |
| Working voltage | 6,3kVA | 4,4kVA | 3,1kVA | 7,1kVA | 5,5kVA | 4,6kVA |
| Input voltage | 8,7 A | 6,4 A | 4,5 A | 9,9 A | 7,9 A | 6,6 A |
| Open circuit voltage | 20,9 - 35,0V | | | 17,5 - 31,0V | | |
| Construction norms | 7 | | | | | |
| Insulation class | F | | | | | |
| Protection rating | IP 21 | | | | | |
| Cooling | AF | | | | | |
| Construction norms | ČSN EN 60 974-1 | | | | | |
| Dimensions (W x L x H) | 470 x 841 x 556 mm | | | | | |
| Weight | 62 kg | | | 65 kg | | |

RECOMMENDED ACCESSORIES



HELMET



MIG/MAG
STANDARD
TORCH



MIG/MAG
UP-DOWN
TORCH



TRANSFORM.
VALVE

STEP-SWITCHED MIG/MAG MACHINES

ALF 260 - 400 HD

FEATURES

- MIG/MAG welding machine
- All-copper transformers
- Compact or with a separate wire feeder.
- UP-DOWN torches supported (not in BASIC version)
- Gas pre-heater



FUNCTIONS



MIG/MAG



THREE-PHASE
400 VOLT
POWERED



STEP-SWITCHED
VOLTAGE



ALL-COPPER
TRANSFORMER



ADJUSTABLE
BURN BACK TIME



SPOT AND
INTERVAL
WELDING



2-STROKE
4-STROKE



PRE-GAS
AND
POST-GAS



SOFT
START



ELECTRONIC
FEEDBACK



RESET



REMOTE
CONTROL

APPLICABLE CONTROL BOARDS



BASIC



MINOR 2



MAJOR



SYNERGY

TECHNICAL DATA

| Machine type | ALF 260 HD | | | ALF 280 HD | | | ALF 320 HD | | | ALF 400 HD | | |
|------------------------|---------------------|--------|--------|---------------------|--------|--------|---------------------|---------|--------|---------------------|---------|--------|
| Input voltage | 3x400V / 50Hz | | | 3x400V / 50Hz | | | 3x400V / 50Hz | | | 3x400V / 50Hz | | |
| Mains protection | 16A DELAYED | | | 16A DELAYED | | | 25A DELAYED | | | 25A DELAYED | | |
| Power factor cos φ | 0,9 | | | 0,9 | | | 0,9 | | | 0,9 | | |
| Dimensions (W x L x H) | 40A – 260A | | | 40A – 280A | | | 40A – 320A | | | 40A – 400A | | |
| Construction norms | 1x10 | | | 1x10 | | | 1x12 | | | 2x10 | | |
| Welding method | MIG | | | MIG | | | MIG | | | MIG | | |
| Duty cycle | 30% | 60% | 100% | 20% | 60% | 100% | 30% | 60% | 100% | 30% | 60% | 100% |
| Welding current | 260A | 200A | 160A | 280A | 210A | 170A | 320A | 240A | 190A | 400A | 320A | 260A |
| Working voltage | 27,0v | 24,0v | 22,0v | 28,0v | 24,5v | 22,5v | 30,0v | 26,0v | 23,5v | 34,0v | 30,0v | 27,0v |
| Max. effective current | 8,6KVA | 6,2KVA | 4,3KVA | 10,2KVA | 6,7KVA | 5,0KVA | 11,8KVA | 10,0KVA | 5,8KVA | 16,7KVA | 12,4KVA | 9,5KVA |
| Max. input current | 12,4A | 8,9A | 6,3A | 14,7A | 9,7A | 7,2A | 17,1A | 14,0A | 7,9A | 24,2A | 18,0A | 13,6A |
| Open circuit voltage | 18,5v – 40,5v | | | 18,5v – 40,5v | | | 18,5v – 43,9v | | | 19,9v – 46,6v | | |
| Insulation class | F | | | H | | | H | | | H | | |
| Protection rating | IP 21 | | | IP 21 | | | IP 21 | | | IP 21 | | |
| Cooling | AF | | | AF | | | AF | | | AF | | |
| Construction norms | EN 60974-1 | | | EN 60974-1 | | | EN 60974-1 | | | EN 60974-1 | | |
| Dimensions (W x L x H) | 500 x 866 x 792 mm | | | 500 x 866 x 792 mm | | | 500 x 866 x 792 mm | | | 500 x 866 x 792 mm | | |
| Compact/Separate | 500 x 866 x 1320 mm | | | 500 x 866 x 1320 mm | | | 500 x 866 x 1320 mm | | | 500 x 866 x 1320 mm | | |
| Weight (Compact) | 81 Kg | | | 85 Kg | | | 93Kg | | | 101Kg | | |

RECOMMENDED ACCESSORIES



HELMET



MIG/MAG
STANDARD
TORCH



MIG/MAG
UP-DOWN
TORCH



CABLE BUNDLES
2-15 m



TRANSFORM.
VALVE

STEP-SWITCHED MIG/MAG MACHINES

ATA 400 - 600 HD

FEATURES

- MIG/MAG welding machine
- All-copper transformers
- Compact or with a separate wire feeder.
- UP-DOWN torches supported (not in BASIC version)
- Powerful external water-cooling unit



FUNCTIONS



MIG/MAG



THREE-PHASE
400 VOLT
POWERED



STEP-SWITCHED
VOLTAGE



ALL-COPPER
TRANSFORMER



ADJUSTABLE
BURN BACK TIME



SPOT AND
INTERVAL
WELDING



2-STROKE
4-STROKE



PRE-GAS
AND
POST-GAS



SOFT
START



ELECTRONIC
FEEDBACK



RESET



REMOTE
CONTROL



WATER
COOLING

APPLICABLE CONTROL BOARDS



BASIC



MINOR 2



MAJOR



SYNERGY

TECHNICAL DATA

| Machine type | ATA 400 HD | | | ATA 500 HD | | | ATA 600 HD | | |
|------------------------|-------------------------|---------|--------|-------------------------|---------|---------|-------------------------|---------|---------|
| Input voltage | 3x400V ~ ±15% / 50-60Hz | | | 3x400V ~ ±15% / 50-60Hz | | | 3x400V ~ ±15% / 50-60Hz | | |
| Mains protection | 25A DELAYED | | | 32A DELAYED | | | 63A DELAYED | | |
| Power factor cos φ | 0,9 | | | 0,9 | | | 0,9 | | |
| Dimensions (W x L x H) | 40A – 400A | | | 60A – 520A | | | 40A - 600A | | |
| Welding method | MIG | | | MIG | | | MIG | | |
| Duty cycle | 30% | 60% | 100% | 20% | 60% | 100% | 25% | 60% | 100% |
| Welding current | 400A | 320A | 260A | 520A | 400A | 320A | 600A | 530A | 430A |
| Working voltage | 34,0V | 30,0V | 27,0V | 40,0V | 34,0V | 30,0V | 44,0V | 40,5V | 35,5V |
| Max. effective current | 16,7kVA | 12,4kVA | 9,5kVA | 28,5kVA | 16,8kVA | 12,0kVA | 31,5kVA | 28,0kVA | 18,9kVA |
| Max. input current | 24,2A | 18,0A | 13,6A | 43,4A | 24,7A | 17,8A | 46,2A | 41,2A | 27,2A |
| Open circuit voltage | 19,9V - 46,6V | | | 19,5 - 56,0V | | | 17,0 - 55,5V | | |
| Insulation class | H | | | H | | | H | | |
| Protection rating | IP 21 | | | IP 21 | | | IP 21 | | |
| Cooling | AF | | | AF | | | AF | | |
| Construction norms | EN 60974-1 | | | EN 60974-1 | | | EN 60974-1 | | |
| Dimensions (W x L x H) | 605 x 871 x 800 mm | | | 605 x 871 x 800 mm | | | n/a | | |
| Compact/Separate | 605 x 871 x 1360 mm | | | 605 x 871 x 1360 mm | | | 640 x 910 x 1417 mm | | |
| Weight | 120 Kg | | | 140 Kg | | | 210 Kg | | |

RECOMMENDED ACCESSORIES



HELMET



MIG/MAG
STANDARD
TORCH



MIG/MAG
UP-DOWN
TORCH



CABLE BUNDLES
2-15 m



TRANSFORM.
VALVE

STEP-SWITCHED MIG/MAG MACHINES

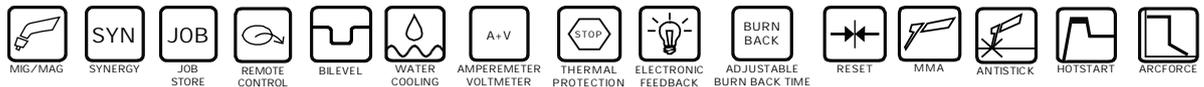
A 400 - 500 chopper

FEATURES

- Large dot-matrix display.
- Secondary inverter.
- Synergy/full manual control
- Instant access to four currents (start current, two main currents, end current) - optional.
- User interface in national languages.
- 10 memory banks, 10 jobs each. Easy job management and description.
- Electrode welding and gauging with excellent characteristics.
- Ecological cooling mode.
- Remote control on torch.
- USB port, easy firmware updates.



FUNCTIONS



TECHNICAL DATA

| Machine type | CHOPPER 400 | | CHOPPER 500 | |
|------------------------|------------------------|-----------|------------------------|-----------|
| Input voltage | 3x400V~ ±15% / 50-60Hz | | 3x400V~ ±15% / 50-60Hz | |
| Mains protection | 25A DELAYED | | 35A DELAYED | |
| Power factor cos φ | 0,95 | | 0,95 | |
| Welding method | MIG/MAG - MMA | | MIG/MAG - MMA | |
| Duty cycle | 50% | 100% | 50% | 100% |
| Welding current | 400A | 310A | 500A | 410A |
| Working voltage | 15,8-34 V | 15,8-34 V | 15,8-39 V | 15,8-39 V |
| Open circuit voltage | 64V | | 64V | |
| Insulation class | F | | F | |
| Protection rating | IP 23 | | IP 23 | |
| Cooling | AF | | AF | |
| Construction norms | EN 60974-1 / EN 50199 | | EN 60974-1 / EN 50199 | |
| Dimensions (W x L x H) | 640 x 920 x 1406 mm | | 640 x 920 x 1406 mm | |
| Weight (Set) | 165 Kg | | 180 Kg | |

RECOMMENDED ACCESSORIES



HELMET



MIG/MAG
UP-DOWN
TORCH



CABLE BUNDLES
2-15 m



REMOTE
CONTROL



TRANSFORM.
VALVE



PUSH-PULL
FEEDER

ATA 350 PULSE 2

ATA 350 PULSE 2 MOBIL

ATA 400 PULSE 2

ATA 500 PULSE 2



ATA 350 PULSE 2 MOBIL



ATA 350/400/500 PULSE 2

FEATURES

- Pulsed synergic welding inverter for MIG/MAG and MMA welding.
- MIG/MAG welding of aluminium, stainless steel, MIG brazing of zinc-coated steel and stainless steel.
- Full digital control.
- User interface in 7 national languages.
- Twin pulse (pulse in pulse)
- More than 60 pre-set MIG/MAG programs. Job store - 10 memory banks, 10 jobs each.
- UP-DOWN remote control on torch.
- Built-in cooling unit.
- Cooling pump and ventilators eco-mode.
- Coated electrode welding

FUNCTIONS



TECHNICAL DATA

| Machine type | ATA 350 PULS 2 MOBIL | | ATA 350 PULS 2 | | ATA 400 PULS 2 | | ATA 500 PULS 2 | |
|------------------------|------------------------|-----------------|------------------------|-------|------------------------|-------|------------------------|-------|
| Welding current range | 25 – 350 A | | 25 – 350 A | | 25 – 400 A | | 25 – 500 A | |
| Input voltage | 3x400V~ ±15% / 50-60Hz | | 3x400V~ ±15% / 50-60Hz | | 3x400V~ ±15% / 50-60Hz | | 3x400V~ ±15% / 50-60Hz | |
| Mains protection | 16A DELAYED | | 32A DELAYED | | 32A DELAYED | | 50A DELAYED | |
| Power factor cos φ | 0,99 | | 0,99 | | 0,99 | | 0,99 | |
| Welding method | MIG | | MIG | | MIG | | MIG | |
| Duty cycle | 60% (20°/40°C) | 100% (20°/40°C) | 60% (40°C) | 100% | 60% (40°C) | 100% | 60% (40°C) | 100% |
| Welding current | 320/280A | 280/250A | 270A | 250A | 350A | 320A | 500A | 400A |
| Working voltage | 28,0V (40°C) | 26,5V (40°C) | 27,5V | 26,5V | 31,5V | 30,0V | 39,0V | 34,0V |
| Max. input current | 21,8A | | 21,8A | | 28,1A | | 37,7A | |
| Open circuit voltage | 81V | | 81V | | 81V | | 81V | |
| Insulation class | F | | F | | F | | F | |
| Protection rating | IP 23 | | IP 23 | | IP 23 | | IP 23 | |
| Cooling | AF | | AF | | AF | | AF | |
| Construction norms | EN 60974-1 / EN 50199 | | EN 60974-1 / EN 50199 | | EN 60974-1 / EN 50199 | | EN 60974-1 / EN 50199 | |
| Dimensions (W x L x H) | 320 x 670 x 480 mm | | 440 x 930 x 960 mm | | 440 x 930 x 960 mm | | 440 x 930 x 960 mm | |
| Weight | 36 Kg | | 97 Kg | | 98 Kg | | 108 Kg | |
| Noise emission | < 70 dB | | < 70 dB | | < 70 dB | | < 70 dB | |

RECOMMENDED ACCESSORIES



HELMET



MIG/MAG
UP-DOWN
TORCH



CABLE BUNDLES
2-15 m



REMOTE
CONTROL



TRANSFORM.
VALVE

APC-IN 35, 45

APC 30-75

APC 150 CHOPPER CUT

FEATURES

APC-IN 35 a 45

- IGBT technology
- Contactless ignition
- Continuous voltage regulation

APC 30-75

- Voltage regulation in steps
- HF ignition

APC 150 CHOPPER CUT

- Chopper inverter
- Continuous voltage regulation
- HF ignition



APC 35



APC 30-75



APC 150
CHOPPER CUT

TECHNICAL DATA

| Machine type | APC-IN 35 CUT | | APC-IN 45 CUT | | APC 30-75 CUT | | APC 150 CHOPPER CUT | |
|------------------------|------------------------|--------|------------------------|--------|------------------------|-------|------------------------|--------|
| Input voltage | 1x230V~ ±15% / 50-60Hz | | 3x400V~ ±15% / 50-60Hz | | 3x400V~ ±15% / 50-60Hz | | 3x400V~ ±15% / 50-60Hz | |
| Mains protection | 25A DELAYED | | 10A DELAYED | | 25A DELAYED | | 32A DELAYED | |
| Effectivity | 0,85 | | 0,85 | | 0,8 | | 0,98 | |
| Duty cycle | 60% | 100% | 60% | 100% | 60% | 100% | 60% | 100% |
| Max. input current | 24A 19A | | 11,5 A 9A | | 23,0A | | 28,0A | |
| Max. effective current | 5,5KVA | 4,4KVA | 7,9KVA | 6,2KVA | - | | - | |
| Cutting current | 35A | 27A | 45A | 35A | 45A | 30A | 140A | 120A |
| Cutting voltage | 94V | 91V | 98V | 94V | 100,0V | 92,0V | 136,0V | 128,0V |
| Open circuit voltage | 14V | | 14V | | 275V | | 300V | |
| Air pressure | 5bar | | 5bar | | 0,55MPa | | 0,55MPa | |
| Material thickness | 10 – 12mm | | 12 – 15mm | | - | | - | |
| Insulation class | H | | H | | F | | H | |
| Protection rating | IP 23 | | IP 23 | | IP 21 | | IP 23 | |
| Cooling | AF | | AF | | AF | | AF | |
| Construction norms | EN 60974-1 / EN 50192 | | EN 60974-1 / EN 50192 | | EN 60974-1 / EN 50199 | | EN 60974-1 / EN 50199 | |
| Dimensions (W x L x H) | 160 x 400 x 260mm | | 160 x 400 x 260mm | | 400 x 750 x 650 mm | | 500 x 800 x 650 mm | |
| Weight | 9,5 Kg + 1,2 Kg hořák | | 9,5 Kg + 1,2 Kg hořák | | 67 Kg | | 155 Kg | |

RECOMMENDED ACCESSORIES



FILTER

PLASMA