

Plastic Welding



Extrusion Welding



Process Heat



BAK-Ag, a brand from Switzerland is a manufacturer of hot air welding machines for roofing, tunnelling, tarpaulins, membrane welding, etc. BAK supplies automatic, semi-automatic, and manual membrane welding machines which can be deployed to weld PVC, TPO, membrane, etc.

Laron 21, an easy to handle and user-friendly machine due to optimal design and balance. This welding machine is one of the best and fastest in the commercial roofing industry. It is designed for the most demanding commercial roofing job sites.



- Digital display to check temperature, voltage, and speed before operation.
- Brushless motor makes continuous operation seamless.
- Stepless adjustment for airflow, temperature, and speed.

- Voltage: 230V/15A/Single Phase
- Power: 3600W/3.6kW
- Maximum Temperature: 620°C
- Maximum Welding Speed: 21m/min
- Weight: 37kgs

RoofOn is the smallest and most compact automatic hot air welding offering from BAK-Ag. It is suitable for all types of thermoplastic roof material. The machine comes with useful features that make working with it simpler, such as a digital display and controller, a robust drive mechanism, and many more. The machine is fitted with a 40mm roller, and is capable of giving a 40mm wide, wrinkle free seam.



- Stepless digital adjustment for speed, temperature, and air flow.
- A robust automatic drive mechanism.
- Wrinkle free welding.
- Digital control readout out for all crucial parameters.



- Voltage: 230V/15A/Single Phase
- Power: 3400W
- Maximum Temperature: 600°C
- Maximum Speed: 12m/min
- Maximum Air flow: 500L/min
- Weight: 15kgs

ProtOn Air is a small, and lightweight automatic double seam plastic welding machine that is ideally suited for large tunnelling jobs. It can be used to weld a wide variety of materials such as PVC, TPO, and Geomembranes.

- Small, lightweight, and robust.
 - Brushless drive and heater motor.
 - Stepless adjustment for all welding parameters.
 - Integrated GPS tracking with the myBAK app.
- Voltage: 230V/15A/Single Phase
 - Power: 2200W/2.2kW
 - Maximum Temperature: 550°C
 - Maximum Welding Speed: 2m/min
 - Weight: 9.8kgs

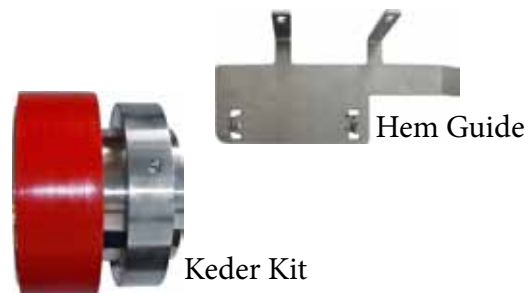


ProtOn Air is also available as ProtOn Wedge which is ideal for Wedge Welding, and can be used for plastic weld materials thicker than 2mm.

PlanOn is a reliable automatic welding machine and is suitable for hem welding, and has been specially designed for the advertising banner industry. The machine can be fitted with a special hem welding guide which folds material over welding position, and permits simple and easy production of hems in advertising banners.

Additionally, with this new design of the hem kit, you can also attach a keeder kit to the welder to add ropes in your hems. Hem guides are available for 20, 30, and 40mm hems and can be simply attached to the PlanOn automatic welding machine.

- Voltage: 230V/15A/Single Phase
- Power: 3400W/3.4kW
- Maximum Temperature: 620°C
- Maximum Welding Speed: 12m/min
- Weight: 14kgs



HOT AIR WELDING

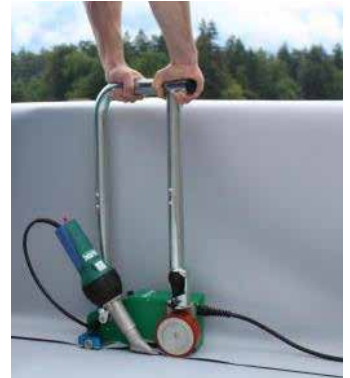


MicOn is an economic hot air welding machine that bridges the gap between fully automatic, and manual welding machine. The machine can be specified with a 30mm, or 40mm weld seam. The MicOn comes as standard with a metal handle attached to the machine, and acts as walking support.



- Innovative, lightweight, smart
- Stable and robust design
- Stepless adjustment for Speed and temperature
- Ideal for welding thermoplastic membranes
- Constant temperature and speed
- Manual pressure

- Voltage: 230V, Single Phase
- Power: 2100W/2.1kW
- Maximum Temperature: 600°C
- Weight: 6.8kgs



BAK RiOn



HANDHELD HOT AIR GUN
BAK **RiOn** and **ErOn** are great options for hand welding plastics and for finishing work after using BAK's automatic machines. Both these machines are equipped with DC motors, and are capable of delivering high airflow rates while running at 650°C.

- Voltage: 230V/15A/Single Phase
- Power: 1600W
- Maximum Temperature: 650°C
- Maximum Air flow: 200L/min
- Weight: 1.2kgs

BAK ErOn



- Voltage: 230V/15A/Single Phase
- Power: 3400W
- Maximum Temperature: 650°C
- Maximum Air flow: 600L/min
- Weight: 1.5kgs

MarOn is a small welding tool that requires an external air supply. The machine features a stepless temperature adjustment, and can be connected to any BAK Blower to fulfill air supply requirements. BAK recommends pairing MarOn with BAK SorOn.

- Voltage: 230V
- Power: 1700W
- Maximum Temperature: 650°C
- Maximum Air flow: 300L/min
- Static pressure: 3000Pa/0.45Psi
- Weight: 2.5kgs



BAK with sister company DOHLE manufactures handheld plastic extrusion machines that are widely employed by 3D printers across the world. BAK extruders are capable of doing LDP/HDP extrusion, and are built with an integrated thermo-blocker that protects the drive mechanism from heat.

Common Features:

- BAK's flicker free technology ensures non-stop flow of material without temperature drop.
- Tempered steel barrel reduces wear and tear.
- BAK places the thermocouple inside the barrel to ensure optimum temperature for extrusion.
- Cold start protection technology prevents improper welding, and reduces material wastage.
- Each Extruder is equipped with a revolving head that can rotate 360°.

| Voltage | Power | Max Output | Welding Consumables | Weight | Welding Materials |
|---------|-------|------------|---------------------|--------|-------------------|
|---------|-------|------------|---------------------|--------|-------------------|

ExOn 1A



| | | | | | |
|-----------------------------|-------|----------|------------------|------|-------------|
| 230V 15A Single Phase | 2320W | 1.2kg/hr | 3 and 4 round | 5kgs | PE# PP## |
|-----------------------------|-------|----------|------------------|------|-------------|

ExOn 2A



| | | | | | |
|-----------------------------|-------|--------|------------------|------|-------------|
| 230V 15A Single Phase | 3100W | 2kg/hr | 4 and 5 round | 7kgs | PE# PP## |
|-----------------------------|-------|--------|------------------|------|-------------|

ExOn 3A



| | | | | | |
|-----------------------------|-------|--------|------------------|------|-------------|
| 230V 15A Single Phase | 3600W | 3kg/hr | 4 and 5 round | 8kgs | PE# PP## |
|-----------------------------|-------|--------|------------------|------|-------------|

Polyethylene

Polypropylene

HEATERS & BLOWERS



Compact is an industrial hot air blower with variable airflow and temperature setting, the compact is ideal for heating, activating, shrinking, and drying.



- Voltage: > 230V single phase
> 400V three phase
- Power Consumption: 2-6kW, configurable
- Maximum Temperature: 750°C.
- Maximum Airflow: Configurable upto 800-970L/min.
- Air outlet diameter: 62mm
- Weight: 3.2kgs

RiOn & ErOn are versatile hot air guns with an ample amount of air flow to cater to light duty needs for heating, shrinking, and packaging. Both these variants of hot air blowers can be configured and bought with either with a standard DC motor, or a Brushless DC motor. BAK recommends using Brushless motor variant of both these blowers for packaging and heat shrinking. Brushless motor provides enhanced performance during continuous duty.



| | RiOn | RiOn BL | ErOn | ErOn BL |
|----------------------------|----------------------|----------------------|----------------------|----------------------|
| Voltage | 230V Single Phase | 230V Single Phase | 230V Single Phase | 230V Single Phase |
| Power Consumption | 1600W | 1600W | 3400W | 3400W |
| Maximum Temperature | 650°C | 650°C | 650°C | 650°C |
| Air Flow | 200L/min | 250L/min | 600L/min | 600L/min |
| Weight | 1.2kgs | 1.3kgs | 1.5kgs | 1.7kgs |

Nozzles are available in various sizes and are intercompatible with all BAK Heaters & Blowers. Use 5mm pushfit for membrane Rehabilitation work. 20mm and 40mm are suitable for membrane welding. Nozzles in various sizes can be attached to blowers for packaging, and shrinking. Size of nozzle depends on width of heating required.

S32 is the entry point in the BAK heater range, and measures only 10 inches in length. This heater can be incorporated into tight spaces on automated packaging lines.

- Voltage: 230V/15A/Single Phase
- Power Consumption: 1000/1550/2000W
- Maximum Temperature: 650°C
- Minimum Air flow: 170/230/430L/min
- Air connection: 19mm
- Air outlet: 16mm
- Weight: 0.4kgs



S36 is slightly larger than the S32 with a higher heating capacity.

It can be configured as either a 2300W or 3300W heater.

- Voltage: 230V/15A/Single Phase
- Power Consumption: 2300/3300W
- Maximum Temperature: 650°C
- Minimum Air flow: 280/420L/min
- Air connection: 19mm
- Air outlet: 22mm
- Weight: 0.5kgs



L62 is a do-it-all heater that can supply up to 12.4kW of heating power through its compact form factor. Measuring 4x5in, the L62 is compact yet powerful enough to meet all your needs.

- Voltage: 400-440V/16A/Three Phase
- Power: Configurable up to 12,600W/12.6kW
- Maximum Temperature: 700°C
- Minimum Air flow: 520L/min
- Air connection: 38mm
- Air outlet: 62mm
- Weight: 3kgs



MD10



- Voltage: 3*230V-480V
- Motor Power: 0.14kW/0.2HP
- Peak Flow Rate: 4,900L/min
- Pressure Difference: 1200Pa/0.18Psi
- Speed: 3120RPM
- Air Inlet Port: 70mm
- Air Outlet Port: 60mm
- Dimensions: 231x357x345mm
- Weight: 8.5kgs
- Use with XS20, S21, S32

MD14



- Voltage: 3*230V-480V
- Motor Power: 0.55kW/0.75HP
- Peak Flow Rate: 19,500L/min
- Pressure Difference: 2000Pa/0.30Psi
- Speed: 3340RPM
- Air Inlet Port: 125mm
- Air Outlet Port: 90mm
- Dimensions: 345x485x486mm
- Weight: 17kgs
- Use with S32, S36, M50, L62

HD140



- Voltage: 3*230V-480V
- Motor Power: 0.55kW/0.75HP
- Peak Flow Rate: 1,700L/min
- Pressure Difference: 14,000Pa/0.18Psi
- Speed: 3,410RPM
- Air Inlet Port: 38mm
- Air Outlet Port: 38mm
- Dimensions: 283x224x267mm
- Weight: 11.3kgs
- Use with M50, M50L, L62, XL92

ACCESSORIES



Pressure Rollers

Available Sizes: 5mm Brass
28mm Rubber
40mm Rubber
90mm Rubber



Nozzles

Available Sizes: 5mm Pushfit
20mm Rubber
40mm Rubber



Metal Carrycase



Pressurised Seam Tester



Pressure Support for Micon



Guide Handle for RoofOn & PlanOn



Seam Tester Probe



Revolving Head for Extruders



Hem Guide for PlanOn



Wide Slot nozzle for Heaters



Keder Kit for PlanOn

Available in: 20mm
30mm
40mm



Connection flange for Compact

Available in: 37mm
62mm



For Sales & Services, Contact

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