

Heat Treatment

Flamefast Brazing Hearths / Chip Forges

Flamefast Brazing Hearth



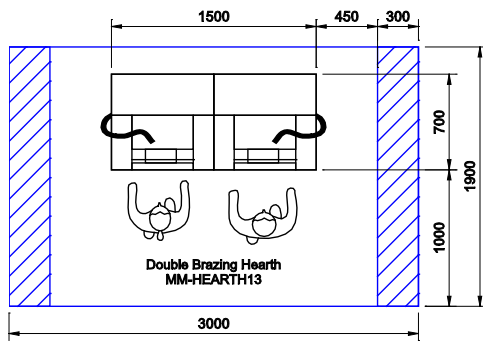
DS400 Single

Shown with extraction canopy (supplied separately).

DS400D Double

DS400 and DS400D brazing hearths feature large 0.4 square metre refractory bases with insulated sides to prevent flame spillage. Both models use the same whisper quiet integral fan unit and feature comprehensive interlocking to prevent flaring or gas leakage in the event of power failure. Each hearth is supplied with an RF80 brazing torch capable of delivering up to 80,000 BTU. Torches have electronic ignition and single hand wheel control for adjusting the flame size whilst maintaining a consistent flame pattern. Fine-flame RF10 Jewellery torches can be supplied in addition to, or instead of, the general purpose RF80 model. The brazing hearths are based on well-proven Flamefast technology and have a well-deserved reputation for low-maintenance, safety and reliability.

Requires additional Heat Treatment Extraction.



See page 10 for drawing details.

Specification	Single	Double
Gas Type:	Natural Gas, Propane or Butane	
Dimensions:	730(W) x 700(D) x 1800(H) mm (with canopy) 730(W) x 700(D) x 1192(H) mm (without canopy)	1500(W) x 700(D) x 1800(H) mm (with canopy) 1500(W) x 700(D) x 1192(H) mm (without canopy)
Weight:	112kg	215kg
Power Requirements:	240V 1A, Fused switch-disconnector (metal clad)	

Flamefast Brazing Hearth/Chip Forge



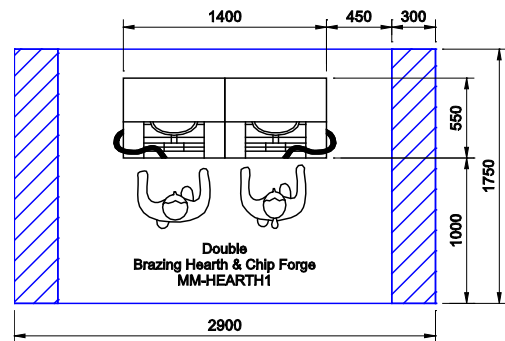
DS430S Single

Shown with extraction canopy (supplied separately).

DS430D Double

At the heart of each unit is a 340mm diameter forge bowl which uses ceramic chip technology to virtually eliminate surface scale-formation on metals. The maximum 1,500°C working temperature can be achieved within 15 minutes of lighting – sufficient for hot working ferrous metal bar up to 50mm diameter. Both single and double units employ the same whisper quiet integral fan and can be fuelled by natural or LPG bottled gas. Both gas and air supply are interlocked to prevent flaring or gas leakage. Alongside the forge unit are one (single) or two (double) refractory surfaces for brazing. Each is provided with an RF80 brazing torch featuring electronic ignition and single wheel control for flame adjustment. Fine-flame RF10 Jewellery torches can be supplied in addition to, or instead of, the general purpose RF80 model.

Requires additional Heat Treatment Extraction.



See page 10 for drawing details.

Specification	Single	Double
Gas Type:	Natural Gas, Propane or Butane	
Dimensions:	1040(W) x 550(D) x 1800(H) mm (with canopy) 1040(W) x 550(D) x 1080(H) mm (without canopy)	1400(W) x 550(D) x 1800(H) mm (with canopy) 1400(W) x 550(D) x 1080(H) mm (without canopy)
Weight:	100kg	133kg
Power Requirements:	240V 1A, Fused switch-disconnector (metal clad)	

Prices

As installation costs form a significant part of the overall price and vary depending on circumstances, we need to carry out a site survey before quoting.

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Flamefast Chip Forge

This unit features ceramic chip technology to virtually eliminate scale-formation on metals. The maximum 1,500°C working temperature can be achieved within 15 minutes of lighting – sufficient for hot working ferrous metal bar up to 50mm diameter. Air supply is by a whisper quiet integral fan, fuel can be natural or LPG bottled gas. Both gas and air supply are interlocked to prevent flaring or gas leakage.

Requires additional Heat Treatment Extraction.

DS430A Shown with extraction canopy (supplied separately).



Specification	
Gas Type:	Natural Gas, Propane or Butane
Dimensions:	720(W) x 560(D) x 1800(H)mm 720(W) x 560(D) x 1080(H)mm (without extraction canopy)
Weight:	133kg
Power Requirements:	240V 1A, Fused switch-disconnector (metal clad)

Flamefast Crucible Furnace



CM450PB

The CM450PB features a tilting crucible which, in most circumstances, will not need lifting when pouring. For larger moulding boxes, a lifting frame is available. This lifts the whole assembly and thus preserves protection to and from the white hot crucible. The furnace is usually placed on a Flamefast Raised Sand Tray which removes the need for a casting pit and provides a safer, more convenient working height for the operator.

Requires additional Heat Treatment Extraction.

Specification	
Gas Type:	Natural Gas, Propane or Butane
Crucible Capacity:	Al 2.9kg Cu/Zn 10kg
Dimensions:	630(W) x 330(D) x 330(H) mm
Weight:	28kg
Power Requirements:	240V 2A, Fused switch-disconnector (metal clad)

Prices

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Flamefast Moulding Bench

The Flamefast Moulding Bench is a robust unit designed to store up to 200kg of moulding sand and has many clever features to prevent sand spillage during moulding operations. Galvanised steel construction provides complete stability. The overall design and a tough stove enamelled finish, matches and complements other Flamefast gas equipment. The two part lid covers the bench when not in use and doubles as a store for moulding tools.



Specification	
Dimensions:	1210(W) x 570(D) x 765(H) mm

Flamefast Welding Bench



This welding bench is ideal for the manual welding requirements in the school or technical college workshop. The 6mm steel surface is provided with pre-cut holes for mounting jigs, fixtures and clamps (not included), making accurate positioning of the workpiece a hassle free affair. Options include a lockable drawer for storage of tools and consumables, side rack for torches and accessories, and bolt on side shelf with ample space for most types of welding equipment.

Requires additional Heat Treatment Extraction.

Specification	
Dimensions:	1120(W) x 600(D) x 850(H) mm
Weight:	79kg

Prices

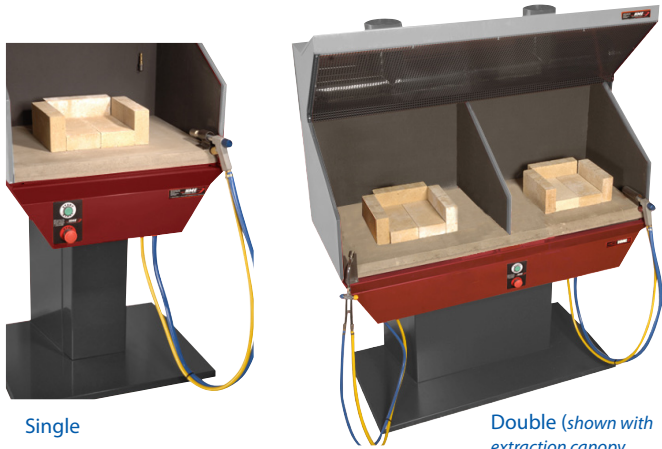
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Heat Treatment

HME Brazing Hearths / Chip Forges

HME Brazing Hearth



Single

Double (shown with extraction canopy. Supplied separately).

These single and two-position brazing hearths feature a robust single plinth design and clean lines for an attractive, contemporary appearance. The quiet, single blower unit supplies air to one or both torches. The torches have an elegant pistol-grip design and a single control wheel for the air/gas supply. This ensures close control and a consistent flame pattern for all flame sizes. The torches are auto-igniting and have a unique feature that checks for gas supply integrity before enabling the pre-ignition device. Both gas and air systems are interlocked to prevent flaring or leakage in the event of power failure. Ceramic back and side panels will withstand prolonged flame impingement, restrict flame spillage and preserve the appearance of the cabinets.

N.B. Requires additional Heat Treatment Extraction.

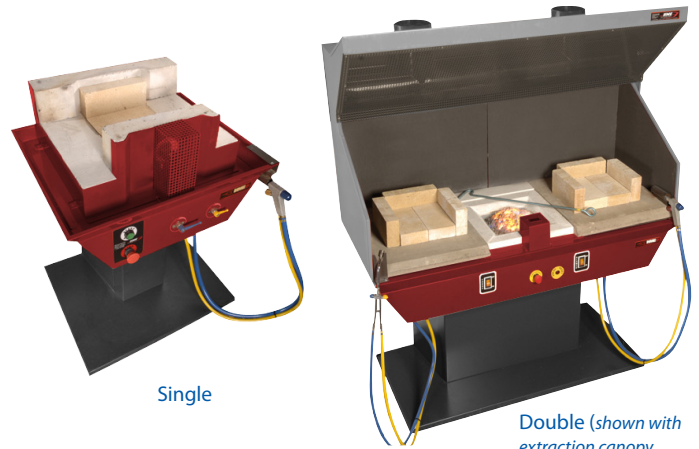
Specification	Single	Double
Gas Type:	Natural Gas, Propane or Butane	
Dimensions:	710(W) x 570(D) x 1660(H) mm (with canopy) 710(W) x 570(D) x 1290(H) mm (without canopy)	1400(W) x 570(D) x 1660(H) mm (with canopy) 1400(W) x 570(D) x 1290(H) mm (without canopy)
Weight:	108kg	185kg
Power Requirements:	415V 2A or 240V 2A Fused switch-disconnector (metal clad)	

Prices

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HME Brazing Hearth/Chip Forge



Single

Double (shown with extraction canopy. Supplied separately).

Both single and double units feature an advanced, whisper-quiet blower unit and HME's distinctive single plinth design. The double unit with two independent brazing hearths and a central forge will probably be all that most schools and colleges will need. The single unit is particularly suitable where space is limited. It provides a generous forge area with the capacity to heat 50mm steel bar to 1,500°C – sufficient for brazing and forging. In addition, a single torch is provided for occasional use when the forge bed will double as a brazing hearth. Torches are as supplied with HME's brazing hearths and feature auto-ignition and gas integrity check for the pre-ignition device. This safety feature is shared with the main forge burner. All air and gas systems are interlocked to prevent flaring or leakage in the event of power failure. Alumina-chip technology for the forge minimises surface-scale formation.

N.B. Requires additional Heat Treatment Extraction.

Specification	Single	Double
Gas Type:	Natural Gas, Propane or Butane	
Dimensions:	700(W) x 575(D) x 1660(H) mm (with canopy) 700(W) x 575(D) x 1030(H) mm (without canopy)	1400(W) x 570(D) x 1660(H) mm (with canopy) 1400(W) x 570(D) x 1290(H) mm (without canopy)
Weight:	118kg	221kg
Power Requirements:	415V 2A or 240V 2A Fused switch-disconnector (metal clad)	

Prices

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HME Alumina Chip Forge



This free-standing forge provides a generous forge area with the capacity to heat 50mm steel bar to 1,500°C. The whisper-quiet blower unit is interlocked with the gas supply to prevent flaring or leakage in the event of power failure. The main burner unit includes a gas integrity check for the pre-ignition device. Alumina-chip technology minimises surface-scale formation.

N.B. Requires additional Heat Treatment Extraction.

Specification	
Gas Type:	Natural Gas or Propane
Dimensions:	700(W) x 575(D) x 880(H)mm
Weight:	131kg
Power Requirements:	415V 2A or 240V 2A, Fused switch-disconnector (metal clad)

HME Crucible Furnace



An automatic melting furnace with an A12 spouted crucible and assisted tilt-action for safe pouring. The quiet blower unit provides a forced air-draft to quickly achieve the higher temperatures needed to melt aluminium. Both gas and air supplies are interlocked to ensure safety in case of power failure, and the auto-ignition sequence prevents flaring to further protect the operator.

N.B. Requires additional Heat Treatment Extraction.

Specification	
Gas Type:	Natural Gas or Propane
Crucible Capacity:	5.6kg
Dimensions:	905(W) x 425(D) x 550(H) mm
Weight:	69kg
Power Requirements:	415V 2A or 240V 2A, Fused switch-disconnector (metal clad)

Prices

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HME Moulding Bench



This heavily constructed unit provides a convenient means to prepare sand moulds while minimising the risk of spillage. The timber frame with plywood panels and doors gives an attractive, traditional appearance. The integral aluminium sand box and generous cupboard space below will contain all the tools and materials needed to ensure a clean, safe work environment.

Specification

Dimensions:	1200(W) x 600(D) x 1010(H) mm
	1800(W) x 600(D) x 1010(H) mm

HME Welding Bench



Featuring HME's distinctive single plinth design, this robust bench will provide a suitable platform for all welding and flame-cutting operations likely to be needed in a school or college setting. The central steel grid has a sand box below to capture sparks, and the refractory back and side surfaces will further contain hot particles. The unit is supplied with earth connection and a central storage shelf.

N.B. Requires additional Heat Treatment Extraction.

Specification

Dimensions:	700(W) x 570(D) x 950(H) mm
	1200(W) x 570(D) x 950(H) mm
	1400(W) x 570(D) x 950(H) mm
Weight:	73kg

Prices

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