

THE UK'S ONLY MANUFACTURERS and SUPPLIERS of:

Earth Block Making Machines - Cob Block Making Machines - Earth Brick Making Machines - Cob Brick Making Machines

Earth Blocks - Cob Blocks - Earth Bricks - Cob Bricks - Premixed Cob and Clay Soils

EARTH BLOCK MACHINE CATALOGUE



Introduction

Earth Blocks Ltd are a UK based company specialising in the manufacture of earthen building products for the construction industry and formally established in 2020, although our experience with earth and cob dates back to the 1990's. With continued research and development, we now have an acknowledged product perception recognised far and wide by industry professionals, seminary representatives and associated themed organisations. Cooperatively shared R&D results ensure that we continue to justify traction in an expanding marketplace that is realising evidential progress and seeking targeted addressment.

Low Carbon Awareness

Low carbon technologies for raw material viability and manufacturing processes are at the forefront of a global effort to reduce greenhouse gases within construction disciplines. Today, raw material extraction and processing contributes significantly to high CO2 levels and these mind-blowing figures are reached BEFORE a product has even been manufactured. Territorial soils and natural geology differ from region to region, therefore we have been attentive to specific utilisation of 'home-grown' raw materials, rather than conveyed resources, by delivering the primary manufacturing equipment to the mineral source. Our earth block making machines have been designed and manufactured with due diligence, performance familiarity, usability and end-product excellence in mind. They deliver a unique [product] manufacturing operation that is cleaner, more consistent and more importantly, almost carbon-free.

Machine Manufacture

Mindful of factory generated CO2 and resource requirements ALL of our earth block machines are constructed to a duplicate template using the bare minimum of raw materials, however we do supply different models to suit a variety of user demands. A Standard Model for example, can be easily upgraded in the workplace to accommodate any of our modifications or variations that may be required. Equally, any of our AIO300 series can be simply 'downgraded' if necessary. Our engineering team are available for consultation if you have a specific or bespoke design of machine requirement. As a safety measure, all models have been designed to be operated by ONE PERSON ONLY and will only function when 2 separate sprung-loaded control valves are activated simultaneously. Chamber moulds are available (all models) for those who wish to incorporate shaped surfaces, hollow blocks, briquettes etc.

Ordering a Machine

New machines are manufactured to order and the lead-in time to delivery is generally 10-15 weeks from receipt of payment. If purchasing a machine is not for you, then we have an option for hiring a machine instead. Minimum hire period is 7 days.

For prices, lead-in times and availability; [Contact - Earth Blocks UK](#)

*Please note that a tutorial will be required for all [proposed] operators prior to handover.

Cob Course and Cob Workshops

[COB Courses & CPDs - The Cob Specialist](#)

Important Information

All machines have been safety checked and tested prior to delivery in accordance with:

BS EN ISO 4413

BS EN 982

Warranty - 12 months (parts only) - Hydraulic System and Electrical Components

Single person operation only – All models

Some models may differ slightly in nonessential layout

UK Patent Ref: GB2318655.4 (all models)

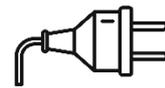
International Patent: Pending (all models)

Patent IPR reserved (all models)

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EARTH BLOCK MACHINE

Model No: AIO/02/24/7KW/300/VC



Overview

Our newest model showcases a compact, easy to use and versatile machine that is establishing itself within the seminary arena of developing and understanding earth technologies. Just plug this machine into a suitable power supply and away you go. Variable hydraulic compression settings are effortlessly achieved with just the turn of a knob and visually identifiable on the 100mm Ø pressure gauge. Specifically designed for earth/aggregate/clay block exploration and experimentation. Hempcrete blocks [manufactured at a low compression rating] are also achievable. This machine would suit (but not restricted to) soil science, mineral research and earth technology institutions looking to broaden intelligence of CEB's.

Purchase only. Not available for hire.

Product Details

Machine Dimensions – W1.6m H1.1m D.6m

Gross Weight – 655kg

Usable Chamber Depth – 300mm

Decibel Level – 65Db - 70Db

Hydraulic Oil Flow Rate – 20lt per minute

Max Operating Temperature – 70D Celsius

4m of (5-core SY) cable and (32A) 5-pin plug fitted

Hydraulic Oil Pump Motor – 7kw

Emergency Stop Button

Machine Carcass – Mild Steel

Chamber Depth – 400mm

Chamber Size 215mm x 385mm

Hydraulic Oil – Mineral Grade 32

Hydraulic Pressure – 180 bar (Variable)

Power Supply – 415v (3-phase) 32A

Starter Overload – 415v Star Delta (20 secs)

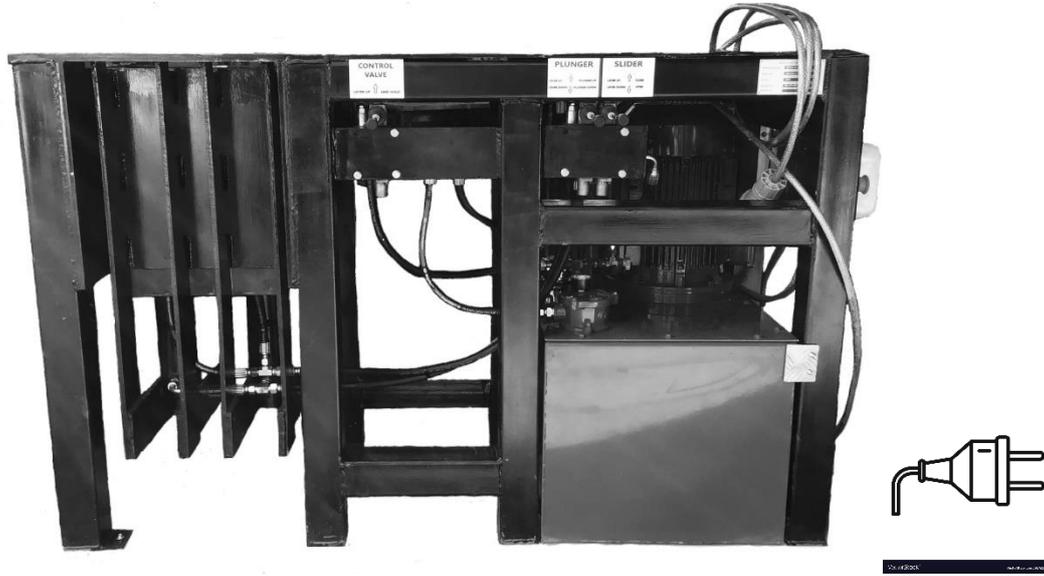
Production Rate (Per Hour) – 1 to 100 units

Colour – Black

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EARTH BLOCK MACHINE

Model No: AIO/02/24/7KW/300



Overview

This model is recognised as the workhorse of our plug-in-and-go models. Easy to install and straightforward to use, the '300' just plugs in and you're up and running. With a factory setting of 180 bar, it can manage all manner of soil consistencies and therefore can deliver a continuity of product excellence. Fitted with a Star Delta relay, powering-up doesn't demand excessive loads to the power supply and provides a 20 second slow-start. This machine would suit (but not restricted to) a factory/warehouse/outbuilding setting making earth/cob blocks all day.

Purchase only. Not available for hire

Product Details

Machine Dimensions – W1.6m H1.1m D.6m

Gross Weight – 655kg

Decibel Level – 65Db - 70Db

Usable Chamber Depth – 300mm

Hydraulic Oil Flow Rate – 20lt per minute

Max Operating Temperature – 70D Celsius

4m of (5-core) SY cable and 32A (5-pin) plug fitted

Hydraulic Oil Pump Motor – 7kw

Emergency Stop Button

Machine Carcass – Mild Steel

Chamber Size – 215mm x 385mm

Chamber Depth – 400mm

Hydraulic Oil – Mineral Grade 32

Hydraulic Pressure – 180 bar

Power Supply – 415v (3-phase) 32A

Starter Overload – 415v Star Delta (20 secs)

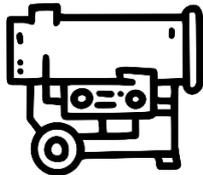
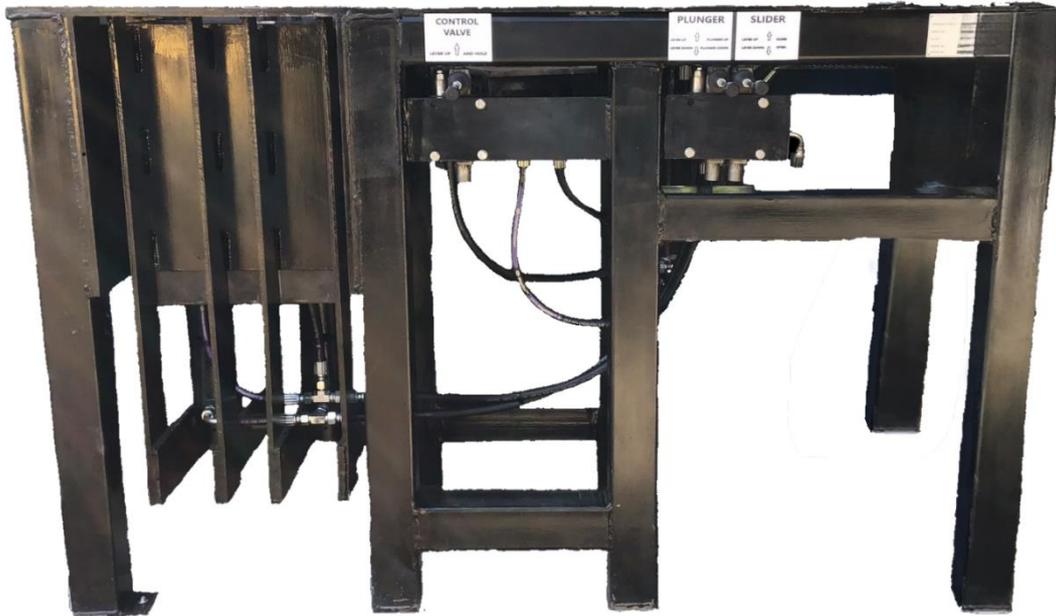
Production Rate (Per Hour) – 1 to 100 units

Colour – Black

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EARTH BLOCK MACHINE

Model No: STD/02/24/300



VectorStock

VectorStock

VectorStock

VectorStock

VectorStock

VectorStock

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VectorStock

Overview

Popular as a hired machine, this standard model is simple to use and relatively lightweight for ease of maneuverability around site. There are no electrical components fitted (or required) for this model and hydraulic power sources are extensive with a range of options. Petrol/diesel portable hydraulic powerpacks require a minimum of 10hp.

[Purchase or available for hire](#)

Product Details

Machine Dimensions – W1.6m H1.1m D.6m
Machine Carcass – Mild Steel
Gross Weight – 550kg
Chamber Depth – 400mm
Production Rate (Per Hour) – 1 to 100 units
Pressure Valve – (factory set at 180 bar)
6m of hydraulic hoses
Colour – Black

Hydraulic Oil Flow Rate – Variable
Hydraulic Pressure – (factory set at 180 bar)
Max Operating Temperature – 70D Celsius
Usable Chamber Depth – 300mm
Hydraulic Oil – Variable
Max Operating Temperature – 70D Celsius
Chamber Size - 215mm x 385mm
Decibel Level - Variable

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AIO300 Series – Installed 2023 at a UK Research Laboratory for earth/soil exploration and experimental block making. Compact and self-contained, with little floorspace required, this model can sit comfortably in most restricted/confined areas that may have limited [additional] appliance capacity. Decibel levels (at idle and under load) fluctuate between a modest 65Db and 70Db, rendering this model as ‘safe listening’. Proficient with achieving [full size] block thicknesses of 50mm – 150mm, test briquettes and specimen cakes.

Purchase only and not for hire.

Patent Ref: GB2318655.4

International Patent: Pending

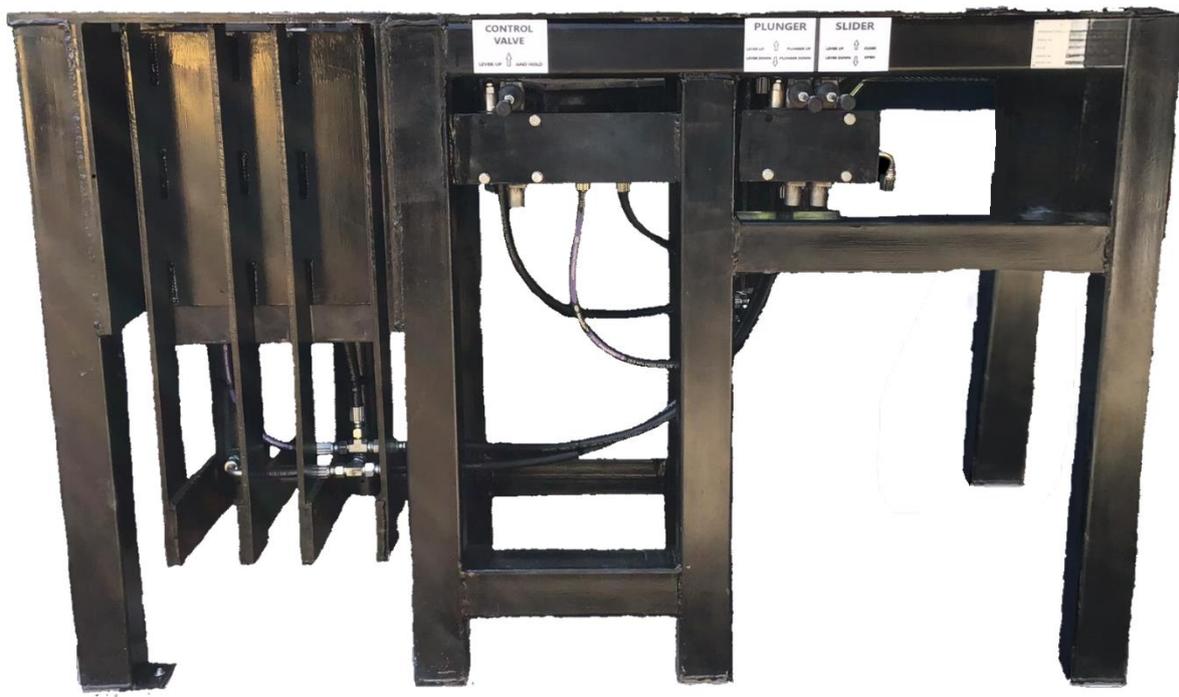


AIO300 Series Workshop setting for cob block production. With only a small footprint of floorspace required, this compact 300 model is an ideal addition to any conservation building material manufacturer/supplier looking to manufacture and supply their own CEB's or a start-up company aiming at CEB production. Easy to use and a potential CEB manufacturing rate of 100 units per hour, this is the go-to machine for a clean, fast-paced, low-noise system of CEB production. Capable of making earth/cob blocks at varying thicknesses from 50mm – 150mm, this model delivers a wide range of end-product dimensions.

Purchase only and not for hire.

UK Patent Ref: GB2318655.4

International Patent: Pending



STD300 model. Can be purchased or hired, this model is ideal for self-builders (but not restricted to) who are looking to make their own CEB's to construct a home, extension or outbuilding. Easy to use, relatively lightweight and manoeuvrable around site, this basic model will churn out blocks all day long. Capable of making earth/cob blocks at varying thicknesses from 50mm – 150mm, this model delivers a wide range of end-product dimensions. With a production rate of up to 100 units per hour, the benefits of ownership or hire are enormous, particularly with the average cost of a CEB at £3 plus. Hydraulic power sources are conveniently varied with hydraulic PTO's from a host of plant vehicles or petrol/diesel powerpacks. 6m of hydraulic hoses (or more if required) enable the host vehicle to be situated remotely from the machine.

UK Patent Ref: GB2318655.4
International Patent: Pending

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125mm Cob Blocks

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100mm Cob Blocks



Cob Block Walling

