

# Mission Statement

To create jobs and a sustainable construction industry by providing high quality machines and facilities to manufacture on site, low cost materials needed to build houses, schools, clinics and commercial premises around the planet.



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Company overview



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A photograph of a construction site with several workers wearing hard hats and safety vests. One worker in the foreground is using a long wooden tool. The background shows a building under construction with a decorative wall.

# Who we are

**Build works** is one of the worlds largest suppliers of high quality manual construction equipment. Our power free building technology makes construction on site cleaner and more efficient and with up to 40% savings on construction costs.

# Our Patented Machinery

## **Vibrating Table**

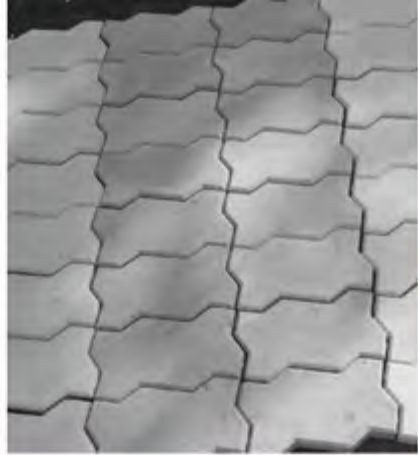
At the heart of Build Works is our unique hand powered or electric powered vibrating table to settle the concrete mix and help produce perfect results every time. The machines can be moved to different locations and products made on site.

## **Over 50 different moulds**

Using the Build Works moulds over 50 different products can be made on these our hand powered or electric vibrating table.

## **6-9 months return on investment**

**Designed and manufactured in the UK. 20 year lifespan for the products with a 5 year Warranty.**



# What we offer

## Patented Technology

Using some of the latest patented technology we provide all the equipment to start block or roof tile manufacturing plants as well as paving bricks and commercial building products.

## Complete Equipment Kits

We have complete equipment kits to build whole communities and towns including, houses, community facilities such as health clinics, schools and churches and commercial buildings such as offices and factories.

## Highly Sustainable Solutions

Power free construction means sustainability is at the centre of our work. Our block design can use up to 30% less material than a traditional block and require no firing or baking.

## Reliability and Quality

All our machinery comes with a 5 year guarantee and we offer full customer service support. If our customers succeed then we will too.



SUSTAINABLE  
GREEN BUILDING



# Excellent Employment Opportunities

## Creating well paid jobs

Building material manufacturing offers excellent opportunities to engage unemployed workers from the local community creating well-paid jobs and the uptake of new skill sets.

## 12 workers needed / 10 hour shift

Each building manufacturing system offers job opportunities for up to 12 people within any 10 hour shift period; 3 to collect and deliver raw materials to the unit, 3 to load the materials, manufacture the blocks/tiles, 3 to take the manufactured blocks and store them in the warehouse and 3 to deliver the completed blocks/tiles to the desired building site. This is before any construction has started.

## Creating new skillsets

Workers will quickly learn new skill sets as they begin using the equipment making them more employable in the future.



# Local Manufacturing businesses

## Small to medium manufacturing

We are looking for organisations looking to establish small to medium manufacturing businesses.

## We provide the equipment and training

We provide all the equipment and training material to establish businesses employing 2 – 4 people and up to many hundreds. Products that can be made include:

## Our products

- New Blocks
- Traditional Blocks
- Roof Tiles
- Floor Tiles
- Paving Blocks
- Paving products
- Decorative Products
- Wall and Fence posts
- Many other products



# Construction opportunities

## Building Homes and Communities

We are looking for organisations who are looking to construct homes and communities.

## Strategic partners

We want to partner with private property developers, development agencies, local and national governments, NGO's and aid agencies and anybody working on development projects involving housing, construction or job creation and skill development.

## Scaled up Projects

Our product can be used to build homes of various sizes, health clinics, schools, community facilities and water tanks. They have also been used to build commercial facilities like office blocks and factories.



# Build Works Manufacturing

Our Products

# Manual Vibrating Table

- This unique hand powered vibrating table can make a range of over 50 products.
- NO POWER REQUIRED
- Manual powered vibrating table to settle the concrete mix and help produce perfect results every time. The machines can be moved to different locations and products made on site.
- Up to 400 products can be made a day



# Electric Vibrating Table

- This electric powered vibrating table can make a range of over 50 products with rapid output per day.
- 260W 3000 rpm motor
- Electric powered vibrating table to settle the concrete mix and help produce perfect results every time. The machines can be moved to different locations and products made on site.
- Up to 1500 item can be made per day



# Stone Crusher and Sieve



## Stone Crusher

- Can crush a range of materials including concrete, granite and stone
- Pedal powered stone crusher up to 3 tonne capacity per day depending on material
- Crushes 100mm to dust with 1 year guarantee



## Sieve

- Separates sand, stone and even glass to sizes 1-2mm 2-4mm and 6+mm in 3 sections.

# Glen-Block Manufacturing

## New Design

The Glen block created by Buildworks is a unique design building block that saves construction time, doesn't require skilled labour to build with and allows easy fitting of pipes and cables.

## A perfect brick look and feel

The finished system reproduces perfectly the traditional building technique of laid bricks.

## Don't need skilled labour

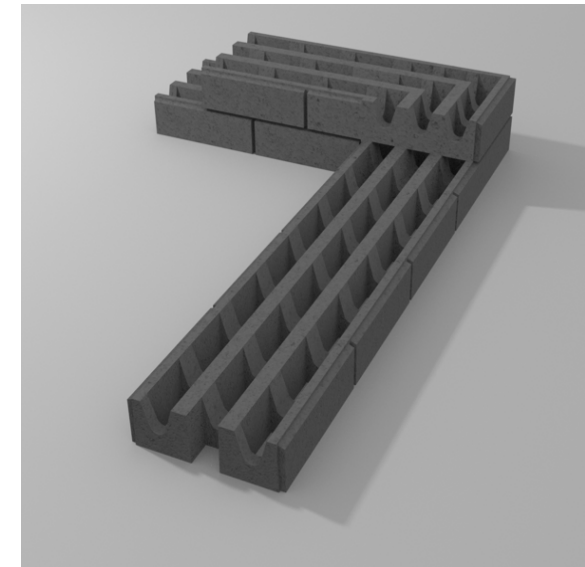
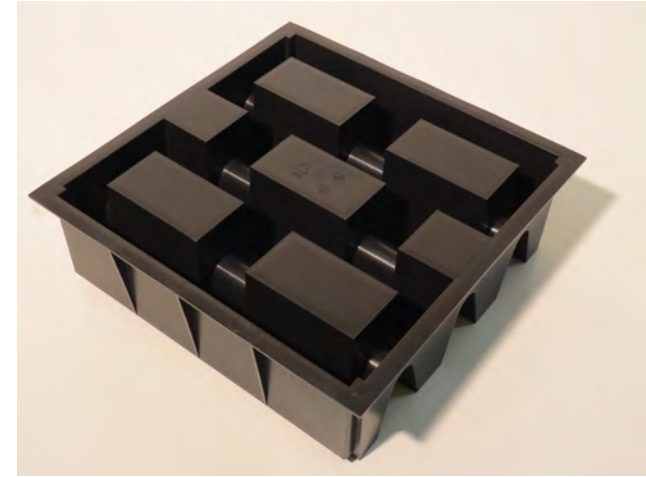
Only the first course of blocks needs to be mortared to the foundation. All subsequent blocks that form a structure can be placed by unskilled labour.

## Full Build System

There is no need to cut blocks for windows and doors, corners or gable ends as we have individual moulds for these.

## Manufacturing

All blocks can be made on the Buildworks manual or electric machine with output up to 1000 units per day.



# Glen-Block Benefits

## Insulation

When stacked together the blocks all form a system of horizontal and vertical voids, these voids act as insulation as they prevent a direct solid path for heat to travel through. These voids can be filled with waste material like paper and plastic.

## Easy to fit pipes and cables

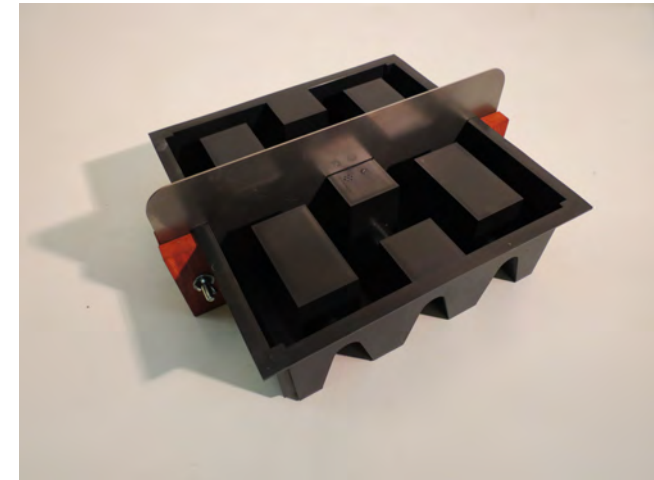
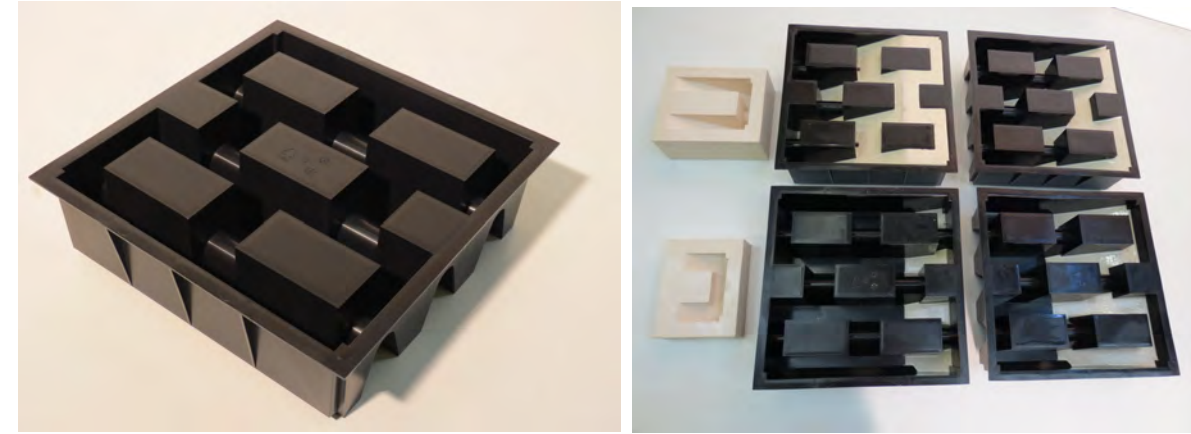
The horizontal voids lend themselves for the installation of service pipes and cabling during construction. This again speeds up construction saving time and money.

## Safe Buildings

Only the first course of blocks needs to be mortared to the foundation. All subsequent blocks that form a structure can be placed by unskilled labour. When the voids are filled with rebar the structure will be earthquake resistant.

## Multi level construction

It can also be used with the Buildworks "High & Dry" system to add floors and ceilings for multi level construction. There is no height restriction governed by mortar as all blocks are placed dry on top of one another.





# Inter Locking Block Manufacturing

## Manufacturing

Quicker to set than traditional blocks so faster manufacturing time.

## Minimum mortar needed

Only the first course of blocks needs to be mortared to the foundation

## Rapid build time

The build time is rapid reducing costs

## No height build restriction

There is no height restriction governed by mortar as all blocks are placed dry on top of one another.

## Light weight bricks

The blocks are light weight and comply with lifting regulations.



# Concrete Block Manufacturing

## 1 million bricks per mould

Using the Buildworks block machine and our metal moulds you can make over 1 million bricks per mould.

## Moulds usable for years

Our high quality block moulds are designed to give years of trouble-free use. You can make hollow or solid concrete blocks in the same mould.

## High Structural strength

Vibration is used to produce high density blocks with a lower water content. High structural strength can be achieved with lower cement content.

## Moulds can be repeatedly used on the same day

The block mould is a casting mould which means the mould is removed whilst the concrete is still wet allowing the mould to be used repeatedly the same day. The steel moulds are filled with concrete vibrated, turned over and removed leaving the blocks to cure.

## 300 blocks per day

***“They have good and quality products”***

**- Mr. Emmanuel Akwa Andoh Ghana.**



# Roof Tile Manufacturing

## Buildworks Roof Tile Machine

Using the Buildworks Roof Tile machine and our polypropylene and polyurethane moulds you can make roof and floor tiles

## Moulds usable for 10 years

## High Durability

Our high quality injection moulded roof tiles will last 40 years minimum.

## Improved Thermo insulating properties

Lightweight concrete tiles provide a high quality, affordable roof. The roof has much better thermo insulating properties to live under than steel sheets and provides noise reduction.

Water collected from the roof will also be clean enough for drinking.

500 tiles a day.

***“Awesome products”***

- Jacob from Tanzania.



# Multi-story Building

## Fast setting floors

Cures quicker and with reduced form work.

## Variety of use

Can be used to build small bridges, commercial buildings and for a wide range of buildings.

## Bring accommodation above ground

Can build affordable homes off the ground. This helps reduce the impact of flooding on communities. Safe building technique for wetlands.

## Save 1/3 on Construction costs and reduced form work with up to 40% material saving.

## Earthquake Resistant

This brick design offers resistance to earthquake tremors as not mortared into foundations so move with the tremors.

## Ideal for flood areas

Also ideal for flood prone areas as allows for building home off the ground.

## Quick Assembly



# Multi-story Building

## 2 floor Buildings

Using the Buildworks machine we have developed solutions for multi-story construction.

## 4 floor Buildings

Using an innovative waffle system and combined with our block system you can construct up to a 4 floor building

## Major Construction costs

The pre cast waffle floor system uses significantly less material saving cost and construction costs and time.

## No need to lift Heavy Equipment

Floor building without any heavy lifting equipment, using less concrete & less reinforcement

## Save 1/3 on Construction costs



# Paving Block Manufacturing

- Numerous design styles
- Suitable for sidewalks
- 10 moulds per manual machine
- Output 1000 + pieces per day
- With good concrete materials and concrete paving bricks can also be used as a road surface material, most suitably for side roads and for pedestrianised areas with some vehicle access.

***“Durable for long term production. Maintenance is very simple and Product support is always available from Parry whenever is needed.”***

**- Renatus Mgetta CEO Tanzania Birmingham Construction.**



# House Kit

## Included in kit:

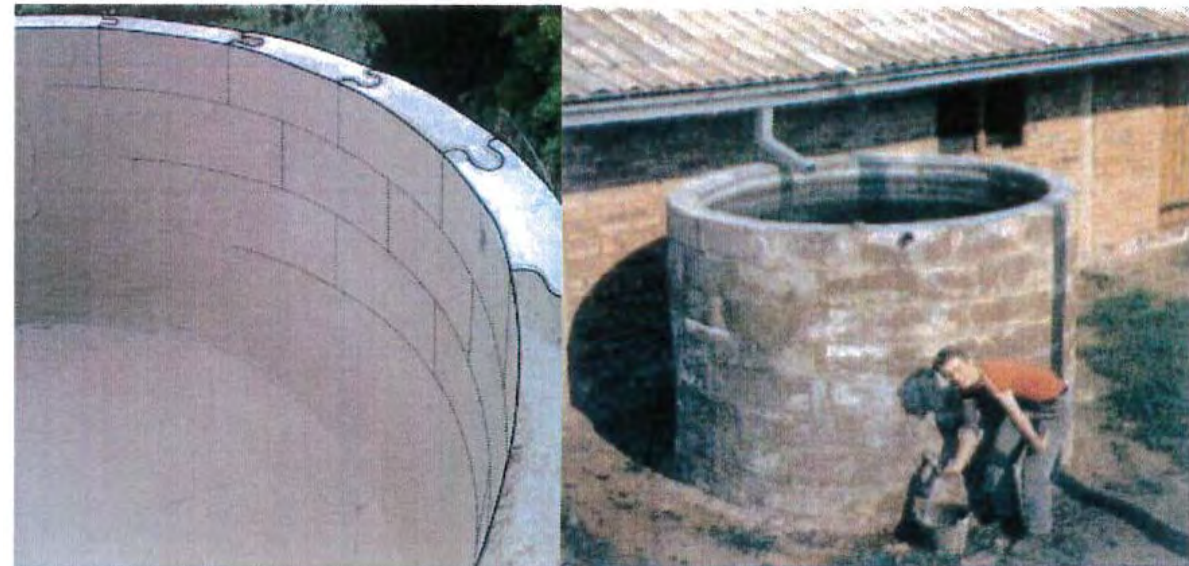
- Machine
- Block mould
- Roof mould
- House Design
- Bill of quantities



**Note:** The kit does not include floor or foundations

# Water tank

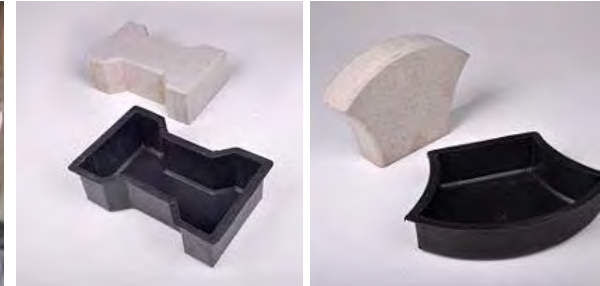
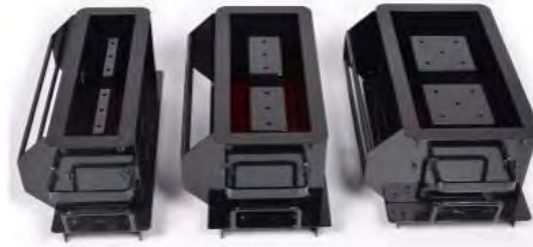
- Our water and storage tank moulds are designed to be easy to construct and resist corrosion. They are durable and do not contaminate contents.
- Construction using these interlocking blocks does not require special materials or skills. A 6,000 litre tank can be quickly built - in as little as 2-3 days after the blocks have been cured.
- These blocks are also useful for constructing wells, pit latrines, cattle troughs, rodent proof grain storage, culverts, arches, vaults etc.





# Starter plant

- Concrete blocks 1 x8 inch
- Roof moulds x50
- Ridge tiles x5
- Paving blocks 228 fan and bone shaped pattern
- Hand powered or electric vibrating table included

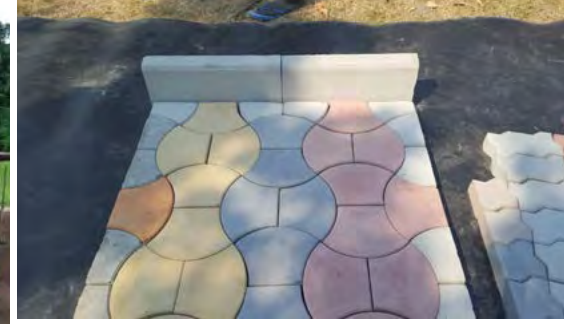


# Multi Product plant

With the multi product plant you can start multiple businesses including blocks, roof tiles, paving block and decorative tiles. It also includes waffles and interlocking blocks enabling you to build multi story.

Included:

- Manual or electric machine
- Interlocking block moulds
- Waffle moulds
- Roof tile moulds
- Paving block moulds
- Tile moulds



# Reconstruction Products

## How do you use existing waste to make new buildings?

- With our stone crusher and sieve you can use waste concrete to make new blocks or roof tiles.
- Our stone crusher will crush any waste building material concrete, stone or granite etc.
- This crushed material can be used immediately or graded into size using our manual sieve.
- Each neighbourhood can have small businesses making bricks from local rubble etc.



# Training Centre

## **Show “Village” and Training Centre in Worcestershire UK.**

Buildworks has developed a purpose built “show village” and training centre in Worcestershire UK. This is open for anyone to visit and see the machines in action and also completed buildings

**NGO’s, Development bodies and private companies can visit and work with our on site engineers to plan programs.**

**We are also establishing similar regional centres across Africa.**

**This centre is also used to train the trainer events.**

**We also have local trainers that can visit you in country.**



# Solar Power

We offer a range of independent solar solutions for homes and buildings.

Ranging in sizes for 0.5kva up to 10 kva for individual buildings.

We also partner with a larger solutions provider for villages and larger power supplies.

## On-Grid Backup Power Solutions – 3 KVA SYSTEM



# Other Opportunities



**Mini Grids**



**Building Equipment**



**Bespoke Industrial Design**



**Decorative Accessory Manufacturing**



**Clay Manufacturing**



**Solar Street Lighting**

# Successful projects

Housing for Jamiibora Trust in Kenya



700 homes built for less \$5000 per house each with a kitchen, 2 bedrooms and a bathroom approx 100sqm. Using several of the Buildworks machines workers have gone on to create small businesses making building materials

Schools and Health Clinics



Schools have been built across Kenya, Zambia, Malawi and Benin.

First Quantum mining group



They bought machines to give back sustainable jobs to local community and the 1400 employees. Part of a CSR scheme to create sustainable jobs.