

## Interlocking Blockmaking Machines



### Hydraform Interlocking Blockmaking Machines

- The Hydraform Interlocking Blockmaking Machines are mobile and blocks can be produced anywhere, even in remote areas. Transportation costs are greatly reduced.
- The Hydraform Interlocking Block Machine provides a cost-effective building solution: 92% of each block is produced from sub-soil and 8% cement by volume.
- No mortar is required for about 75% of the structure resulting in increased use of unskilled labour.
- The Hydraform Building System has been extensively tested for a wide range of building applications including earthquake resistance and has been awarded an Agrément Certificate (No: 96/237).
- Hydraform blocks require no burning and has a lower carbon footprint compared to burnt clay bricks.

#### M7 Mobile Blockmaking Machine

1500 blocks per day | Weight +/- 820 kg

Inclusive of diesel engine, hydraulic power pack including cylinders, compression chamber, pre-compacting top gate assembly, loading assembly, all fitted on a trailer inclusive of spring axle, tow-hitch and road tyres.

#### M7MI Mobile Blockmaking Machine

1500 blocks per day, as per M7 with mixer | Weight +/- 1400 kg

#### M7 S2D or E Stationary Blockmaking Machine

3000 blocks per day | Weight +/- 1000 kg

Consists of three separate units, power pack plus 2 compression chambers connected to the power pack via quick couplers and 4m extension hydraulic hoses. Diesel engine or 380 Volt 2 pole electric motor operating at 3000 rpm.

#### M7 Twin Mobile Blockmaking Machine

3000 blocks per day | Weight +/- 1200 Kg

Inclusive of diesel engine, hydraulic power pack running 2 x compression chambers including cylinders, pre-compacting top gate assembly, loading assembly, all fitted on a trailer inclusive of spring axle, tow-hitch and road tyres.



### Block Cutter and Block Tester

The block cutter is designed to cut a 220 mm Hydraform block

The block tester is used as a quality control tool, enabling the block producer to monitor block strength. The block tester displays block strength in MPa and kg/cm<sup>2</sup>.

#### Block Strength

Block strength is affected by cement content; wet curing duration (7 days minimum) and soil type determines the quality of the block.

Cement Volume	Typical Strength	Mix Ratio
5%	4 MPa	1:20
8%	7 MPa	1:12

(Hydraform recommends an 8% cement mix, for a 7MPa block)

**220 mm block (+/- 12 kg)**  
(Standard mould supplied with machines)  
Width: 220 mm  
Height: 115 mm  
Length: 120 - 240 mm



**140 mm block (+/- 12 kg)** (optional extra)  
Width: 140 mm  
Height: 115 mm  
Length: 120 - 240 mm



**Conduit block (+/- 12 kg)** (optional extra)  
Width: 220 mm  
Height: 115 mm  
Length: 120 - 240 mm



## Paving Brick and Blockmaking Machines



### Paving Brick and Blockmaking Machines

- The Hydraform Paving Brick and Blockmaking Machines make a range of cement products from paving bricks, hollow cement blocks to retaining wall blocks.
- These brick and paving products are conventional and are used in construction projects worldwide.
- A range of electrical or mobile diesel pan mixers are available: from 200L to 500L.

#### V3 Paver Machine

5000 interlocking pavers per day | Weight +/- 2600kg (package)

Moulds	Dimensions (mm)	Approx. daily production
Interlocking paver	200 X 100 X 60	5000
Rectangular paver	200 X 100 X 60	5000
4" hollow block	390 X 190 X 90	3000
6" hollow block	390 X 190 X 140	2000
8" hollow block	390 X 190 X 190	1500
Retaining block	190 X 190 X 390	500
Maxi 140	290 X 140 X 90	4000
Stock brick	220 X 110 X 70	8000

Base frame and pan mixer are optional extras

#### V1SE and V1SD Static Machines

7000 stock bricks per day | Weight +/- 380kg

Moulds	Dimensions (mm)	Approx. daily production
4" hollow block	390 X 190 X 90	3000
6" hollow block	390 X 190 X 140	2000
8" hollow block	390 X 190 X 190	1500
Stock brick	220 X 110 X 70	7000
Maxi 140	290 X 140 X 90	4000

#### V2LE and V2LD Lay as you go machines

10 000 stock bricks per day | Weight +/- 410kg

Moulds	Dimensions (mm)	Approx. daily production
4" hollow block	390 X 190 X 90	2500
6" hollow block	390 X 190 X 140	1750
8" hollow block	390 X 190 X 190	1250
Stock brick	220 X 110 X 70	10 000
Maxi 140	290 X 140 X 90	5000



## Roof Tile Machines



### Roof Tile Machines

- Hydraform Concrete Roof Tile Machines are eco-friendly.
- Cost-effective tiles can now be manufactured in regional sites.
- Housing can have high quality roof tiles.
- Concrete Roof Tiles have better thermal qualities.
- 3 packages available:
  - TM-1000-HF (1000 moulds)
  - TM-2000-HF (2000 moulds)
  - TM-3500-HF (3500 moulds)



### Start-up package for the TM-1000-HF Plant

- TM-1000-HF machine
- 1000 x double roman tile moulds - aluminium
- 40 x Ridge moulds
- Ridge tile maker
- 200L, 380 volt mixer
- De-moulding oil (200L)
- Sand screen mesh
- Sand weighing scale
- De-Palletiser
- Air compressor
- Associated small equipment and tools.

Capacity can be increased up to 3500 tiles per day, by purchasing more moulds

## Solar Lighting Kits



### Basic Solar Lighting Kits

- Solar energy is clean safe energy direct from the sun.
- Our solar kits provide basic electricity for deep rural areas.
- Our solar kits are easy to install (plug and play).
- Go Green! Solar energy is good for the environment.
- Recharges cell phones, provides lighting and power for small televisions.
- 5 Solar Kits available; 20W, 50W, 100W, 150W, 200W Solar Power Kit.

### 100W Solar Power Kit - DIY system ready to use, for easy installation.

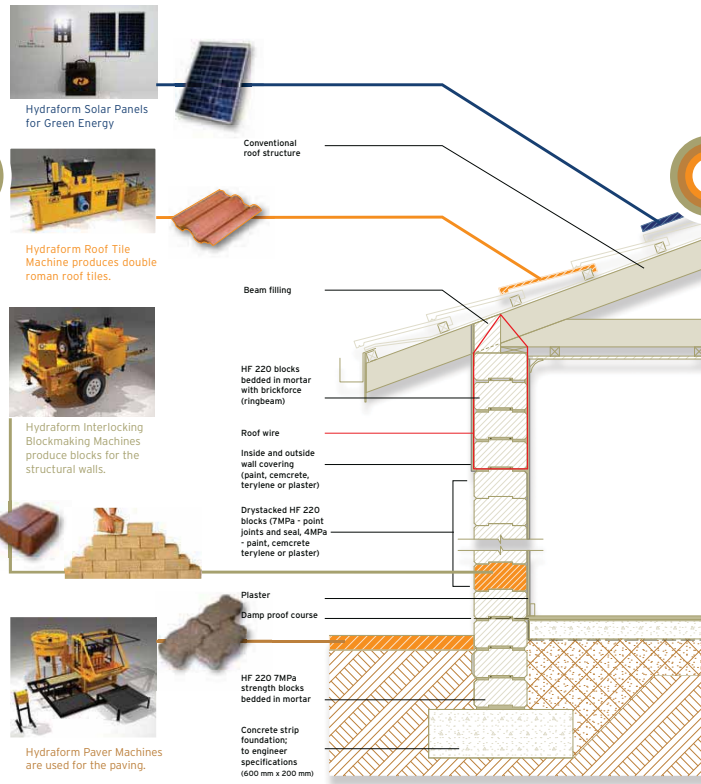
- 2 x 55W solar panels
- 1 x solar controller
- 1 x Inverter
- 4 x low energy globes & fittings
- 1 x Battery 102Ah
- 10m cable
- Plug point for small TV, Radio & cell phone recharge facility.

# HYDRAFORM

## One • Stop • Shop •

A wide range of building equipment to suit your needs

- Hydraform interlocking blockmaking machines produce interlocking blocks soil cement blocks for onsite production.
- Hydraform paving machines produce paving bricks and cubing stones and others.
- Hydraform Roof Tile Machines produce concrete roof tiles.
- The Hydraform Solar Power range is used to provide sustainable electricity.



### Hydraform's vision of providing Sustainable • Building • Solutions •

Hydraform offers a 'one stop shop' for your building needs. The company was launched in 1988, with the objective of producing a cost effective building system for the developing world. Today, Hydraform employs a wide range of staff in areas of machine manufacture, office administration, construction, on-site training and after sales support for an international client base. Hydraform equipment is manufactured in South Africa; **with over 5000 m<sup>2</sup> of factory space for the largest of orders.**

Hydraform provides innovative and sustainable building solutions for the construction of upmarket and low cost housing estates, schools, universities, clinics and commercial structures anywhere in the world. The Hydraform building system and the machines are used in over 50 countries.

**A wide range of building equipment to suit your needs**

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- The Hydraform Solar Power range is used to provide sustainable electricity.

#### Community participation

Local communities can benefit from building with the Hydraform Machine Range. They become active participants in the building process and a sense of awareness and pride is created within the community. This also provides an opportunity for additional income and affords unskilled men and women a chance to empower themselves and learn new skills.

#### Worldwide training and back-up

Hydraform provides on-site training for all its machines and products in the field. Hydraform is dedicated to the technical support of all its machines with the timely supply of spares and back-up from the support team.

#### Protecting the environment

Building with the Hydraform Building System can also help to protect the environment. Replacing clay bricks with Hydraform Interlocking Blocks, eliminates the need to burn wood to bake clay bricks.

**Become part of the Hydraform family today and order your machines now**

The Hydraform Building System is used and trusted by many NGO's, Governments, private investors, developers, international agencies, mining houses and entrepreneurs worldwide.

Machine specifications subject to change without prior notice E. & O.E. Weights are for uncrated machinery.

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