İBARMAKİNA

Block making in Rwanda

What a block costs to make, what it sells for, and what a BLOCKMASTER 4, 8 or 10 earns each month

20 cm block (400×200×200 mm) · machine-made, vibrated and pressed



BLOCKMASTER 8

1 How much material goes into one block?

One of our customers made **7,500 blocks of 400×200×150 mm with 120 bags of cement, 55.5 m³ of sand and 37 m³ of chippings**: 62.5 blocks per bag with 30 mm shells. Our calculation uses 25 mm shells: **about 64 blocks per bag** for this block size.

Material	Per block	Per 1,000 blocks
Cement	0.8 kg	16 bags of 50 kg
Sand	7.2 litres	7.2 m³
Chippings	4.8 litres	4.8 m³

Hand-moulded blocks get far fewer blocks from a bag, because the mix is not vibrated. A machine gives strong, regular blocks from every bag.

What one block costs in Kigali

Cement	Rwf 218
Sand	Rwf 159
Chippings	Rwf 135
Labour	Rwf 14
Generator diesel	Rwf 33
Water, curing, maintenance, breakage (+6%)	Rwf 33
Cost per block	**≈Rwf 592**

Prices used: cement Rwf 14,000 a bag · sand Rwf 22,000 per m³ · chippings Rwf 28,000 per m³ · labourer Rwf 7,000 a day · diesel Rwf 2,927 a litre

2 Selling price and profit per block

City	Cost (Rwf)	Selling price (Rwf)	Profit per block (Rwf)	Margin
Kigali	≈592	800–900	**208–308**	26–34 %

20 cm block (400×200×200 mm) · hollow, 25 mm shells; Kigali, cautious price range

1 block · Kigali

≈592 → 800–900

Rwf · cost → price

+208–308

Rwf · profit per block (26–34 %)

3 What each machine earns (Kigali)

The machine runs at full capacity, 26 days a month, and the yard sells its full output. Cautious: 5% material waste, operator pay 30% higher, 10% other costs and fixed costs (manager, security, rent, maintenance) deducted.



BLOCKMASTER 4

Output per day	**4,000 blocks**
Crew	**8 people**

Materials per day: 62 bags of cement · 28.8 m³ sand · 19.2 m³ chippings

Net profit per month · selling at Rwf 800
Rwf 13.7 million
≈ 9,300 USD

Net profit per month · selling at Rwf 900
Rwf 24.1 million
≈ 16,300 USD



BLOCKMASTER 8

Output per day	**8,000 blocks**
Crew	**11 people**

Materials per day: 125 bags of cement · 57.7 m³ sand · 38.4 m³ chippings

Net profit per month · selling at Rwf 800
Rwf 31.2 million
≈ 21,100 USD

Net profit per month · selling at Rwf 900
Rwf 52.0 million
≈ 35,200 USD



BLOCKMASTER 10

Output per day	**10,000 blocks**
Crew	**14 people**

Materials per day: 156 bags of cement · 72.1 m³ sand · 48.1 m³ chippings

Net profit per month · selling at Rwf 800
Rwf 40.5 million
≈ 27,400 USD

Net profit per month · selling at Rwf 900
Rwf 66.5 million
≈ 45,000 USD

4 Our machines in Africa

We have installed block making machines in more than 30 countries, including Ghana, Uganda, Côte d'Ivoire, Mali, Senegal and Gabon.







See all our installations →

With İBAR MAKİNA

- Installation and operator training included in the price
- 2-year warranty on our machines
- Spare parts shipped from stock the same day
- Over 45 years of experience, installations in more than 30 countries

Not included in this calculation

Land, buildings, curing yard, delivery trucks, depreciation, taxes and loan repayments. Prices change: let's redo the calculation with your own prices.

Let's do the calculation with your prices

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Full guide: ibarmakina.com/en/block-making-business-profitable-rwanda-cost-per-block/