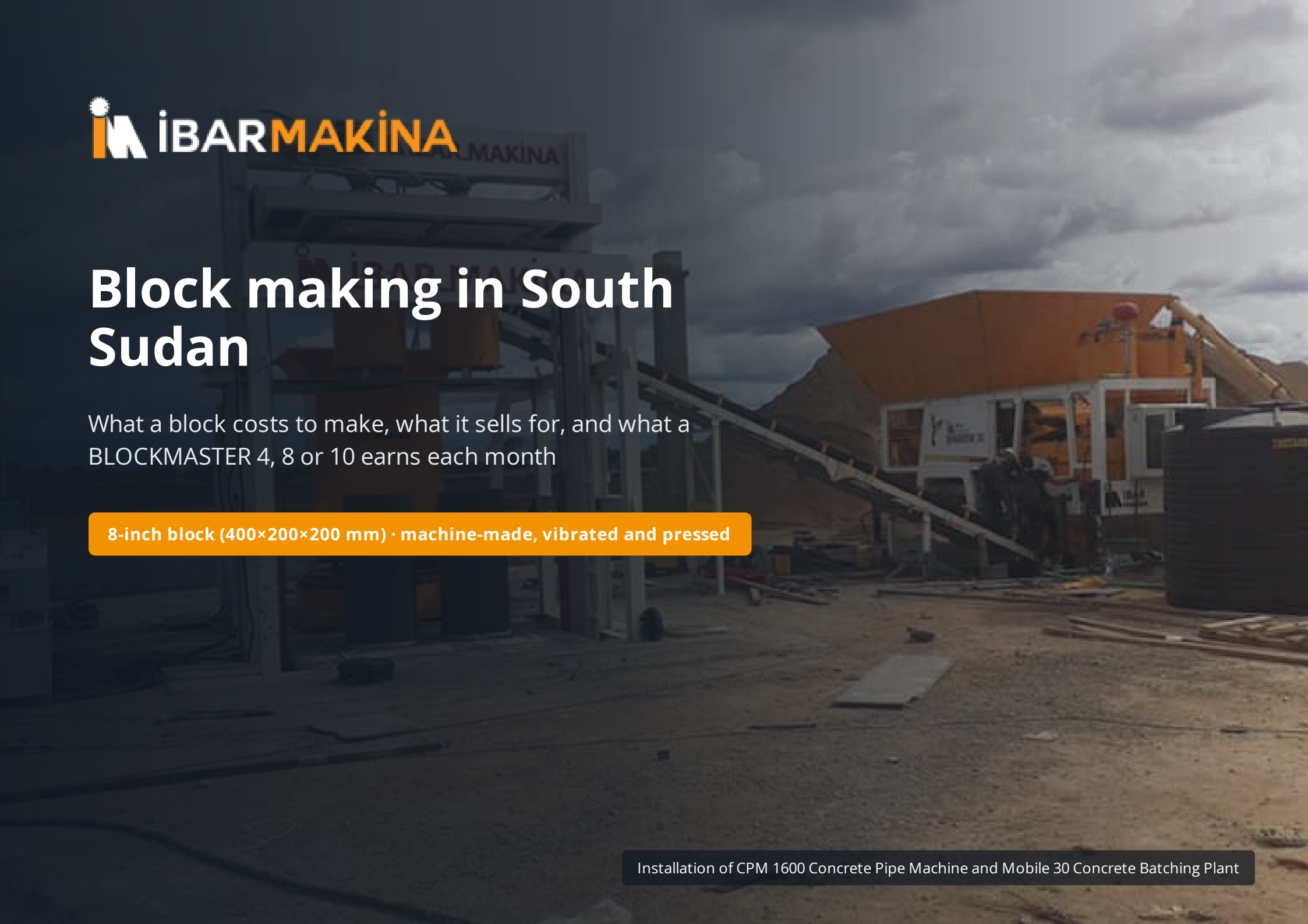
İBARMAKİNA

Block making in South Sudan

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

8-inch block (400×200×200 mm) · machine-made, vibrated and pressed



Installation of CPM 1600 Concrete Pipe Machine and Mobile 30 Concrete Batching Plant

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 Juba

Cement	US$0.28
Sand	US$0.14
Chippings	US$0.17
Labour	US$0.02
Generator diesel	US$0.02
Water, curing, maintenance, breakage (+6%)	US$0.04
Cost per block	**≈US$0.67**

Prices used: cement US$18.00 a bag · sand US$20.00 per m³ · chippings US$35.00 per m³ · labourer US$8.00 a day · diesel US$2.20 a litre

2 Selling price and profit per block

City	Cost (US$)	Selling price (US$)	Profit per block (US$)	Margin
Juba	≈0.67	0.90–1.10	**0.23–0.43**	25–39 %

8-inch block (400×200×200 mm) · hollow, 25 mm shells; Juba, estimated prices

1 block · Juba

≈0.67 → 0.90–1.10

US$ · cost → price

+0.23–0.43

US$ · profit per block (25–39 %)

3 What each machine earns (Juba)

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 US$0.90
US$16,000

Net profit per month · selling at US$1.10
US$36,000



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 US$0.90
US$35,000

Net profit per month · selling at US$1.10
US$76,000



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 US$0.90
US$44,000

Net profit per month · selling at US$1.10
US$96,000

4 Our installations in South Sudan

Machines we installed and commissioned in South Sudan. Our team trained the operators on site.



SOUTH SUDAN

Installation of CPM 1600 Concrete Pipe Machine and Mobile 30 Concrete Batching Plant

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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