

QT40-1 Semi Auto Cement Block Machine

Conveyor-fed electrical vibration press with a 30 second cycle, sized for a 60 square metre workshop and three to four workers.



Overview

The QT40-1 is the first step up from hand feeding. A 6 metre belt conveyor carries the mixed batch from the JD350 pan mixer into the machine hopper, and a 13.45 kW electrical vibration press moulds the block in 30 seconds. The published layout needs about 60 square metres of covered floor and three to four workers. Moulds change the product, and the capacity table runs from 2160 pieces per 8 hours on a 400 x 250 x 200 mm block up to 17280 pieces on a 240 x 115 x 53 mm brick.

Key Benefits

- 30 second moulding cycle against 40 seconds on the hand-fed QT40-2
- Belt conveyor removes the wheelbarrow step between mixer and hopper
- 35.5 kN vibration force compacts solid brick moulds that hand presses struggle with
- 60 square metre theoretical workshop area, so it fits an existing shed
- Ships assembled: no installation work beyond connecting the power supply

Technical Parameters

Overall size	2060 x 1730 x 1850 mm
Host machine power	13.45 KW
Moulding period	30 s
Vibration force	35.5 KN
Pallet size	850 x 550 x 30 mm
Pallet quantity supplied	600 pcs
Machine weight	3 T
Mixer model	JD350, 5.5 KW, 1.2 m pan

Belt conveyor	6000 x 400 mm, 1.1 KW
Theoretical workshop area	60 m2
Workers required	3-4
Voltage	Built to local supply

Production Capacity

Block size (mm)	Pcs per mould	Pcs per hour	Pcs per 8 hours
400 x 100 x 200	7	630-840	5040-6720
400 x 150 x 200	5	450-600	3600-4800
400 x 200 x 200	4	360-450	2880-3600
400 x 250 x 200	3	270-360	2160-2880
240 x 115 x 53	24	2160	17280
225 x 112.5 x 60	12	959	7679

Capacity is indicative. Actual output varies with operator efficiency, mould and raw material quality.

Supplied Equipment

Item	Function	Power	Technical detail
JD350 pan mixer	Mixes sand, fly ash, cement, stone dust and aggregate	5.5 KW	1.2 m pan diameter
Belt conveyor	Carries mixed material into the machine hopper	1.1 KW	6000 mm long, 400 mm wide
QT40-1 block machine	Electrical vibration moulding; product changes with the mould	13.45 KW	No installation required
Block trolley	Moves pallets to the curing area	-	2 sets
Pallet	Holds blocks during curing and is reused	-	600 pcs

Who It Is For

- Block yards that have outgrown a manual press but not yet justified hydraulics
- Buyers with three to four workers and a 60 square metre covered area
- Projects that need several block sizes from one press

Use Guide

- Allow roughly 60 square metres of covered floor for the machine, mixer and conveyor
- Arrange the office, curing area and stacking area around that footprint to suit the site
- Keep three to four workers on the line: mixer, press, and pallet handling
- Rotate the 600 pallets so blocks cure fully before a pallet returns to the press

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<https://www.chinabrickmate.com/products/qt40-1-semi-auto-cement-block-machine.html>