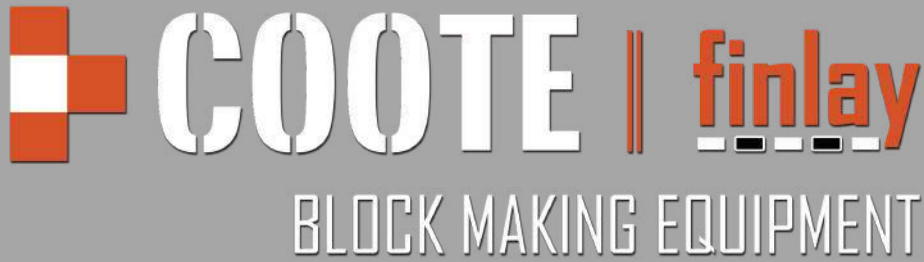


BLOCK MAKING EQUIPMENT

PRODUCT RANGE





Finlay Block Making Equipment was started back in the early **1950s** by the late John Finlay. Acquired by Coote Engineering in 2016, the company now operates under the Coote Finlay brand.

Our team of design engineers are dedicated to continuous advancement and system efficiency. With hard work and innovation, we strive for improving the block making industry. Coote Finlay, a passion for block making since 1953.

Ronnie Coote

COOTE FINLAY

F44 BLOCK MACHINE
F24 BLOCK MACHINE
F12 BLOCK MACHINE
MOULD BOXES
BTCM-409 TURNOVER CUBER
BSM-412 STRAPPER
CBS-6T STACKER
CLAMPS
HOPPERS
SPARE PARTS
MACHINERY REFURBISHMENT
SERVICING AND TECHNICAL SUPPORT
COMMISSIONING AND TRAINING
SAFETY TRAINING COURSES
NOTES
CONTACT DETAILS

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F44

Mobile Block Making Machine

The Finlay F44 range of Mobile Block Machines are Iconic, apart from being the worlds most versatile mobile block machine, they are highly sought after and instantly recognisable. The F44 range has undergone a complete overhaul, with a more refined and modern appearance coupled with new levels of power and economy which is setting the standards for performance. The F44 is always original with its distinctive profile but now features advanced technology with cutting edge developments borne from decades of experience with unbeatable pedigree. This new generation of the F44 mobile block making machine is here with a completely updated electrical control system that is designed to provide minimal downtime with maximum production. The King of mobile block making machinery is becoming a Legend.

SPECIFICATIONS

- Fully automatic machine with pre-programmed control
- Supplied with the latest emissions compliant engine complete with "deep sea" engine/generator management system
- PLC control system including operator touch screen for fast and easy recipe/program set up and alteration. 10 recipes as per standard for quick selection.
- Automatic in-row steering via infrared guidance system
- Hard-wired remote control unit for added safety in mould changing
- Tamper head quick release system
- Unique easy-fit mould box, no need for entry into the danger area
- Maximum mould area is 1160mm x 916mm
- Cycle time is typically 25 – 30 seconds depending on application
- Product height range 190mm – 450mm
- Safety guards all round with captive key locking system
- Factory fitted options, auto lubrication for all grease points
- Hopper capacity 2.5m3 max
- One full set of heavy duty, high frequency, interchangeable mould vibrators, comprising of 4 vibrator elements with variable amplitude, each with individual electric motor drive, complete with mounting plates, leads and plugs

VARIANTS

F44S: (Standard)

Product height range, Variable from 190 to 450mm.
Mould Area, 1160mm wide x 916mm long.

F44R: (Rigid)

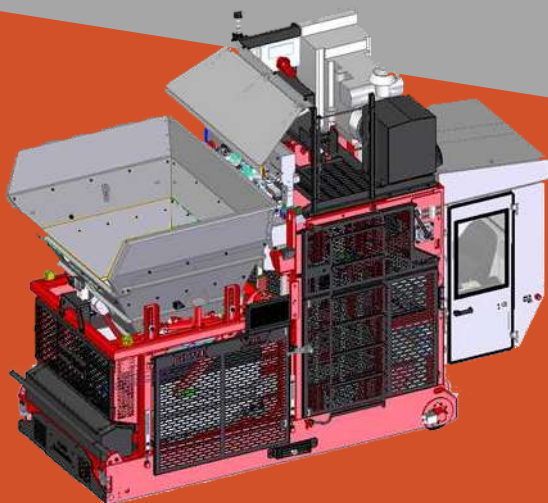
Product height range, 400 - 450mm.
Mould Area, 1160mm wide x 916mm long.

F44L: (Long)

Product height range, Variable from 190 to 450mm.
Mould Area, 1160mm wide x 1050mm long.

TYPICAL HOURLY OUTPUT

- 213mm (8") Hollow Block – 1200
- 138mm (6") Solid Block – 3800
- 98mm (4") Solid Block – 5200





F24

Mobile Block Making Machine

The Finlay F24 range of Mobile Block making machines are establishing themselves as the must have machine for certain product ranges. With the updated and fresh approach to engineering, the build quality and control systems are building the way for the new generation of the F24 mobile block making machines. With various operating modes from manual, semi-automatic to the fully automatic version, the F24 is in a class of its own. Options for operator platforms to fully enclosed cabs along with the Insulated Block insertion attachment make this machine ideal for all types of block production. Operator comfort and safety is second to none and the durability of the machine will ensure years of trouble-free operation.

➤ SPECIFICATIONS

- Semi-Automatic operation with preset facility for travel and mould vibration
- Large capacity feedtray with filler rake – one filling is sufficient for any mould
- Double action Tamper Head gives better product compaction, therefore higher product density and more positive demoulding
- Typical cycle time 25 – 32 seconds, for cavity and solid block, 50 – 55 seconds for insulated block
- PLC control system including operator touch screen for fast and easy recipe/program set up and alteration. 10 recipes as per standard for quick selection.
- Latest emission compliant engine optional
- Product height range 190mm – 250mm
- Maximum mould area 1268mm x 916mm
- Safety guards all round incorporating captive key safety locking system
- Attachment for the production of insulated blocks can be easily removed from the main body of the machine to facilitate mould changing
- One full set of heavy duty, high frequency, and interchangeable, variable amplitude mould vibrators, comprising 4 no. Vibrator elements with individual motors, mounting plates, cables and plugs
- Hopper capacity 1.85m³
- Rear mounted operator platform / enclosed cab optional
- Fully automatic version available

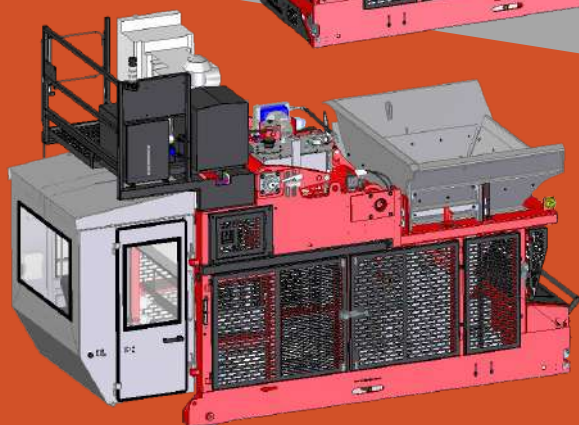
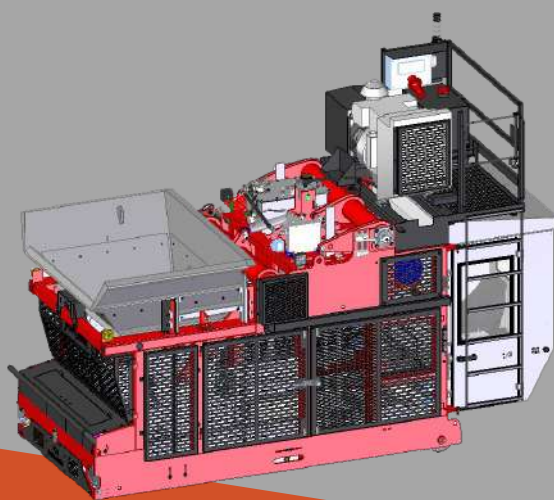
➤ TYPICAL HOURLY OUTPUT

F24:

- 200mm (8") Hollow Block – 1440
- 150mm (6") Solid Block – 1920
- 100mm (4") Solid Block – 2880

F24C:

- 175x200x400 Thermal Block - 840 (Insulated)
- 200x200x400 Thermal Block - 720 (Insulated)





F12

Mobile Block Making Machine

The Finlay F12 range of mobile block making machines are the mighty mini of the Finlay range. For the first entry level into block production, the F12 performs straight out of the box. An updated and modern operation system coupled with state-of-the-art hydraulic power solution allows the F12 to operate at a peak level for your production needs. The F12 comes with either a rear mounted operator platform or a fully enclosed operator cab. In either the manual or semi-automated version, the build quality shines through giving you the reassurance of many years of trouble-free operation. Extensive development has brought the F12 to the front of the queue when it comes to choosing your first step on the block production ladder.

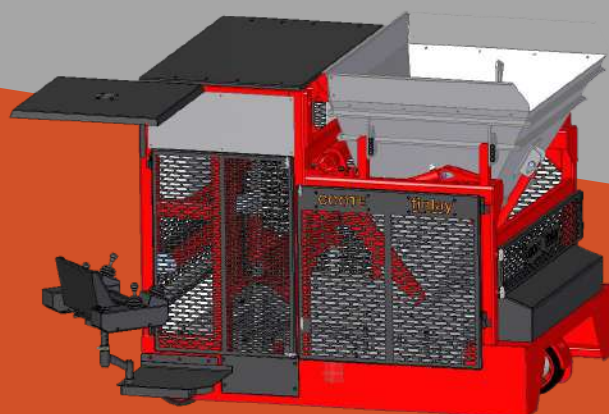
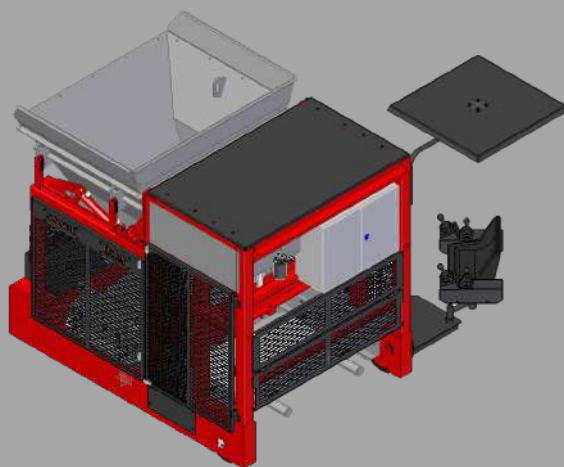
➤ SPECIFICATIONS

- Semi-Automatic operation with pre-setting facility for travel and mould vibration
- Hard-wired remote control unit for added safety in mould changing
- Large capacity feed tray – one filling is sufficient for any mould
- Double action tamper head for a better product compaction and positive demoulding
- Cycle Time is typically 25-32 seconds depending on application
- Latest emission compliant engine optional
- One full set of heavy duty high frequency interchangeable mould vibrators, comprising of 2 vibrator elements with variable amplitude, each with individual electric motor drive, complete with mounting plates, leads and plugs
- Side mounted operator platform with the option of a rear mounted operator platform / enclosed cab
- Maximum mould area is 1268mm x 490mm
- Product height range 190mm – 250mm
- Safety guards all round with captive key locking system
- Produces Solid and Hollow blocks
- Full manual Hydraulic controls option available



➤ TYPICAL Hourly OUTPUT

- 200mm (8") Hollow Block – 720
- 150mm (6") Solid Block – 960
- 100mm (4") Solid Block – 1440





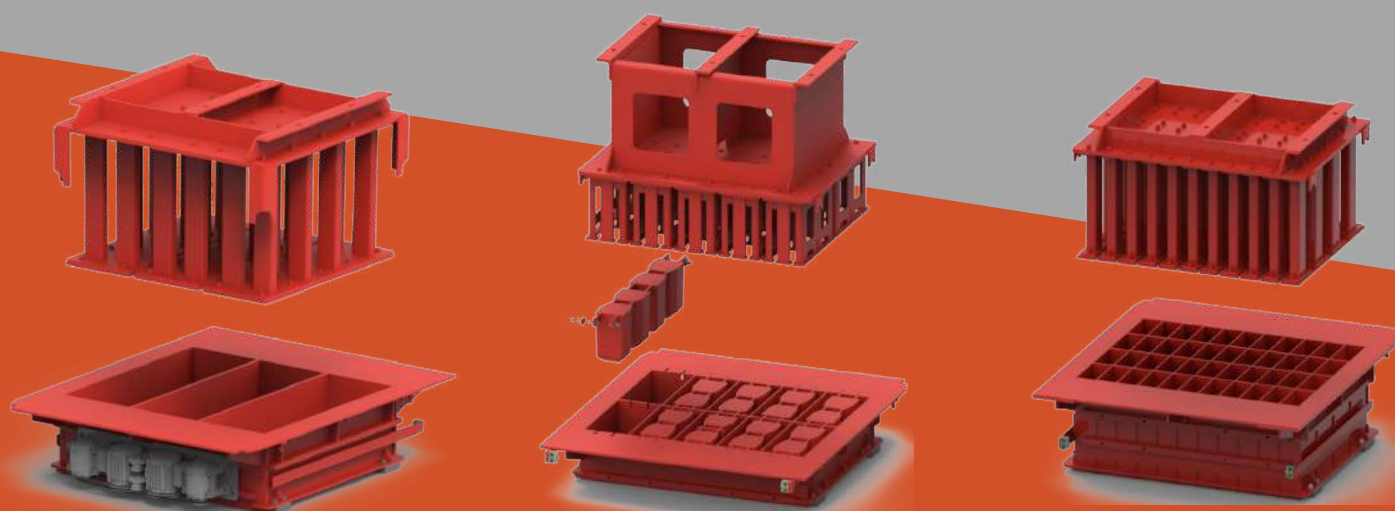
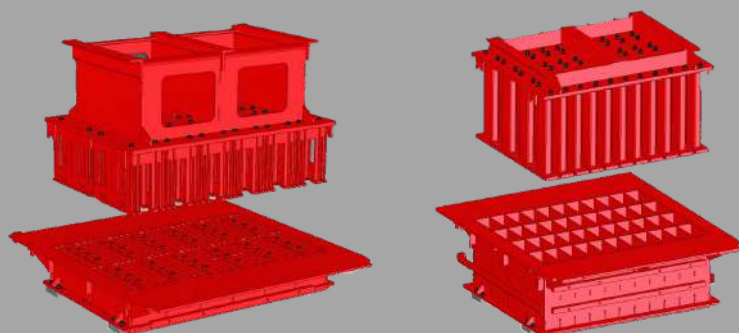
Mould Boxes

Interchangeable Solid & Hollow Block Moulds manufactured with Hardox Steel for strength and durability

Each block machine in the Coote Finlay range has the capacity to produce both solid and hollow building blocks in a variety of sizes, to suit market requirements.



Coote Finlay heavy duty, high frequency interchangeable mould vibrators with variable amplitude, Suitable for all hollow and solid blocks.





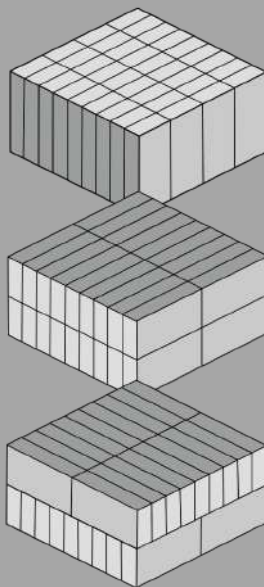
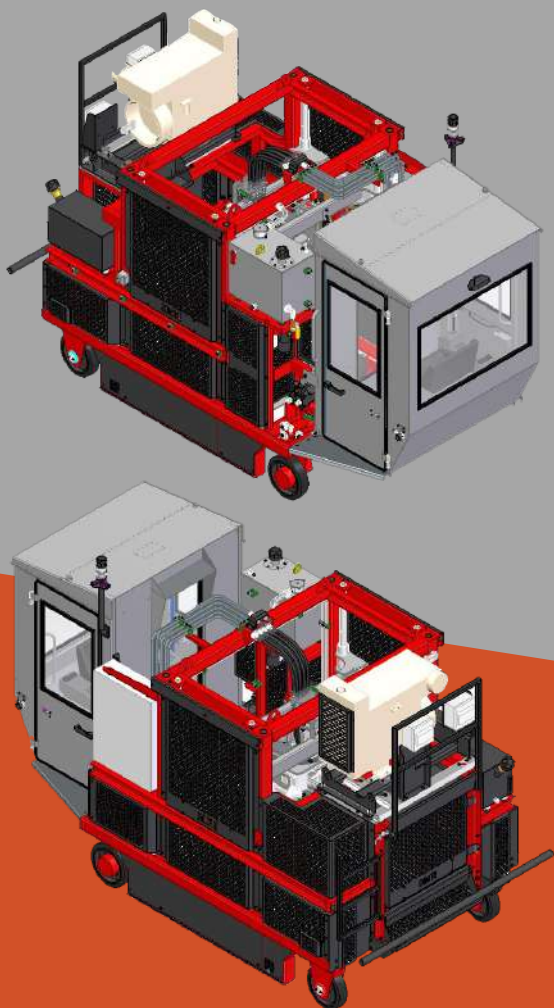
BTCM-409

TURNOVER CUBER MACHINE

The Finlay BTCM (Block Turnover Cubing Machine) comes with the history and quality that is expected from the Finlay range of Mobile Block Handling Equipment. It is the first machine ever developed to not only turn blocks from their "on end" position to the horizontal position but will also cube the pack by rotating the top layer through 90 degrees. All this is done in one travel sequence which elevates this machine into the history books. The BTCM has undergone a complete overhaul and now boasts class leading performance in conjunction with a modern control system that is both simple to use and extremely effective. Featuring new technology and operator selectable operation functions, the BTCM can easily move from a simple turnover only machine into the turnover cuber machine. Whether you need the blocks turned only for Health and Safety in your area or Turned and Cubed to compete with a static plant, the BTCM has you covered.

➤ SPECIFICATIONS

- Fully automatic via PLC control and with manual over-ride facility
- Rotates the top layer 90° to the bottom layer to 'cross bond' the pack.
- Option to increase the required clamping operations when the "breaking" of the bond between block and production pad is more difficult.
- Sound & Lights stack -warning light & sounder for Travel and warning light for Fault mode
- Automatic "Active Distance To Pack" Steering System that is easily adjusted from operator Touch Screen eliminating the need to manually set the steering sensor
- New "Auto Row Entry" system, line machine up with row, it will find the pack and begin automatic operation
- Typical cycle time for Turnover & Cubing operation is 30 seconds, yard conditions allowing.
- Proportional Travel with variable speed settings via the HMI (ensures smooth start & stop in automatic mode in all yard and weather conditions)
- Safety guards all round with operator access protected by Non-Contact Safety switches.
- Forward travel safety bump bar.
- Operator Touch Screen (fast and easy program set up along with machine parameters)
- Working Lights on Machine (illuminates all areas for working in poor visibility)
- Supplied with the latest emissions compliant engine complete with "deep sea" engine/generator management system





BSM-412

Block Strapping Machine

The Finlay BSM (Block Strapping Machine) was developed in the early 70's. It was the first machine of its kind that would travel along a row of blocks and strap each pack, over the following years this machine was developed to operate in a fully automatic mode. Truly ground-breaking. The new generation of developments and updating of older control systems have now produced a Mobile Block Strapping Machine that is a modern-day piece of art. This workhorse of a machine is truly cutting edge with new and updated steering systems and updated hydraulic controls. The BSM has become a must-have piece of equipment that has shown its reliability and durability in even the harshest environments. Options including the Heavy-Duty PVC cover to the All-Weather Steel Canopy with roller shutter doors have brought this machine into the modern world. The modes of operation are easily selected from the in-cab touch screen and several special operation functions are available at the ends of your fingertips.

SPECIFICATIONS

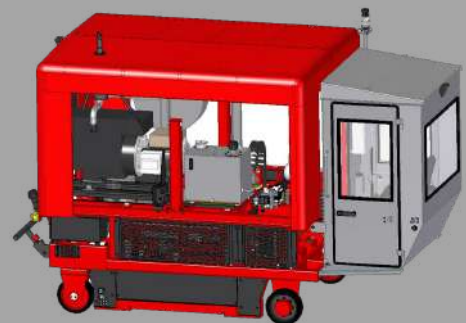
- Fully automatic operation with Itipack VK10 automatic strapping head designed to operate with non-metallic strap; strapping packs in-situ on the production floor.
- Automatic "Active Distance To Pack" Steering System that is easily adjusted from operator Touch Screen eliminating the need to manually set the steering sensor to ensure centre of row travel.
- New "Auto Row Entry" system, line machine up with row, it will find the pack and begin automatic operation
- Typical cycle time for single strap operation is 20 seconds, yard conditions allowing.
- Proportional Travel with variable speed settings via the HMI (ensures smooth start & stop in automatic mode in all yard and weather conditions)
- Improved Safety guards all round, Front Access Safety Gate with operator access protected by Non-Contact Safety switches.
- Forward travel safety bump bar.
- 50 litre Diesel tank with forward facing filling point
- Operator Touch Screen (fast and easy program set up along with machine parameters)
- Sound & Lights stack –warning light & sounder for Travel and warning light for Fault mode
- Working Lights on Machine (illuminates all areas for working in poor visibility)
- Main Clamp Hydraulic pipes enclosed in Power Chain to eliminate pipe snagging
- Yuken A22 Hydraulic Pump – allows fastest cycle to be achieved during production
- Supplied with the latest emissions compliant engine complete with "deep sea" engine/generator management system



STRAPPING POSITIONS

The following Strapping operations are available for selection and immediate use:

- Single Strap** – Middle position
- Single Strap** – Low + High position
- Single Strap** – Low position
- Strap / Stack / Clamp** – Low product only
- Strap / Stack / Strap** – low product only
- Strap Alternate Pack** – low product only
- Double Strap in all above operations





CBS-6T/8T

Block Stacking Machine

The Finlay CBS (Concrete Block Stacker) was developed for the sole purpose of reducing the time it takes to clear a production area of cured blocks. This machine is proven to vastly reduce the time needed to clear a production area, to reduce wear and tear on your forklift, save fuel and also allow the operator to load more blocks onto outgoing delivery vehicles. Designed with longevity and ease of use in mind, this machine has all the hallmark traits of being a major success. Simple and easy to use, with pre-programmed recipes for different block sizes, it really is a point and go machine. Capable of stacking up to 8 tiers in height, the CBS is gentle on blocks but strong on performance.

SPECIFICATIONS

- Fully automatic via PLC control and with manual over-ride facility
- Active pack in-row steering system
- 24v DC control System with Plug & Play Sensors
- Hydraulic Proportional control on Travel & Clamp Lift/Lower
- Clamping on front and rear face of blocks to reduce breakages.
- Manual travel/steering via "Remote control"
- Rear opening protected using Unique "High low exit only" safety feature, Machine stops when entered from the rear opening.
- Capable of stacking up to 8,000 blocks per hour
- Supplied with the latest emissions compliant engine complete with "deep sea" engine/generator management system



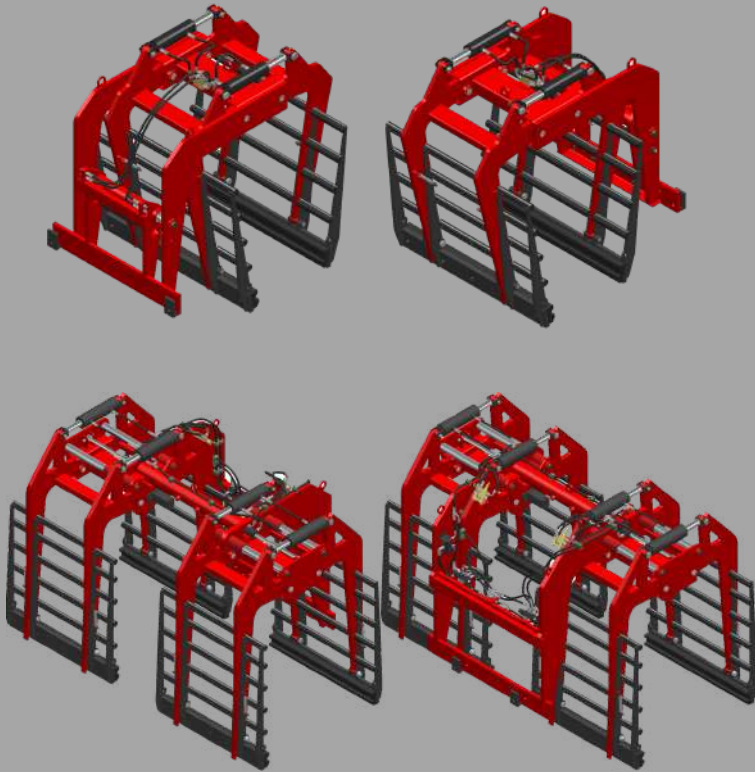


Block Clamps

Attachment

➤ Block Clamp Overview

- Innovative new hydraulic piping to minimise hydraulic pipe movement and increase operator visibility.
- Single, double and triple clamps available with various tier heights
- Suitable for lifting a wide range of concrete products.
- Manufactured with truck carriages & hydraulic functions to suit customer requirements.
- Custom colours available.





Feed Hopper

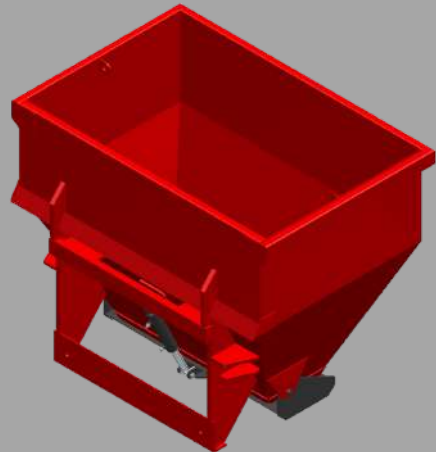
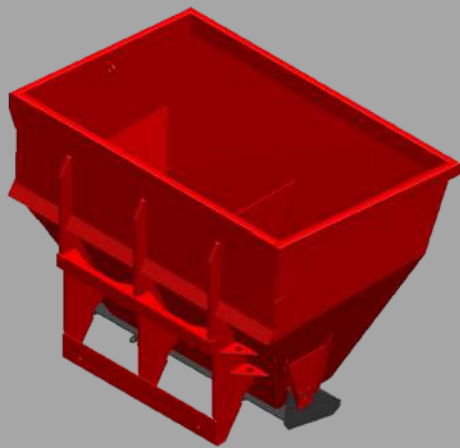
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COOTE FINLAY FEED HOPPERS

Originally designed for the purpose of filling our mobile block machines, the Coote Finlay feed bin is a versatile product with many different applications in the concrete industry.



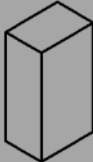

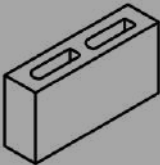
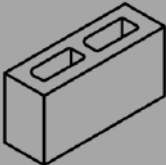
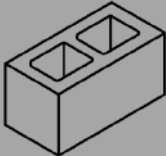
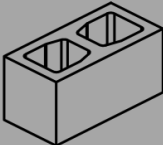
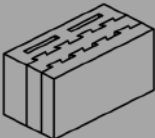
Standards and bespoke designs available with many options including..

- Fork or carriage mounted
- Single or twin doors
- Hardox Lined
- Custom colours available
- Sizes range from 1.0m³ to 3.5m³
- Holding hoppers made to customer specs



Blocks per Cycle

(Based on common sizes)

Typical Block	size	F44S	F44R	F24	F12
	98 x 213 x 438mm Solid Block	44 per Cycle / 5280 per Hour	44 per Cycle / 5280 per Hour	24 per Cycle / 2880 per Hour	12 per Cycle / 1440 per Hour
	138 x 213 x 438mm Solid Block	32 per Cycle / 3840 per Hour	32 per Cycle / 3840 per Hour	16 per Cycle / 1920 per Hour	8 per Cycle / 960 per Hour
	150 x 200 x 400mm Solid Block	28 per Cycle / 3360 per Hour	28 per Cycle / 3360 per Hour	16 per Cycle / 1920 per Hour	8 per Cycle / 960 per Hour
	200 x 200 x 400mm Solid Block	20 per Cycle / 2400 per Hour	20 per Cycle / 2400 per Hour	12 per Cycle / 1440 per Hour	6 per Cycle / 720 per Hour
	100 x 200 x 400mm Hollow Block	22 per Cycle / 2640 per Hour	-	24 per Cycle / 2880 per Hour	12 per Cycle / 1440 per Hour
	150 x 200 x 400mm Hollow Block	14 per Cycle / 1680 per Hour	-	16 per Cycle / 1920 per Hour	8 per Cycle / 960 per Hour
	200 x 200 x 400mm Hollow Block	10 per Cycle / 1200 per Hour	-	12 per Cycle / 1440 per Hour	6 per Cycle / 720 per Hour
	213 x 213 x 438mm Hollow Block	10 per Cycle / 1200 per Hour	-	10 per Cycle / 1200 per Hour	5 per Cycle / 600 per Hour
	200 x 200 x 400mm Thermal Block	-	-	12 per Cycle / 720 per Hour	-



Spare Parts



Access to genuine Coote Finlay parts has never been easier with a huge stock of parts in our warehouse. We offer rapid turnaround on most parts with global delivery.

Coote Finlay design and supply a complete range of genuine spare parts that are competitively priced, of the highest quality and designed specifically for use in all Coote Finlay Block Making Equipment, new or old.

Large stock of all Block Machinery components:

PLC Parts
Electrical
Hydraulic
Mechanical
And more...

Machine Refurbishment



Finlay block machinery is built to last the test of time, but producing and handling concrete blocks is tough work. We offer an in house refurbishment service for all Finlay machinery to restore it to it's former glory and ensure many more years of trouble free use.

During refurbishment we can offer...

- Fully stripped and shot blast all steel parts before repainting
- Replace old guide shafts and bushings with new
- Examine machine for worn or damaged parts and replace accordingly
- Replace or reline hopper wear plates
- Conduct a full engine service
- Overhaul feed tray and carriage
- Examine electrical panel and tidy up as required or replace with new and modern panel
- Replace old tamper head carriage with new hydraulic quick attach tamper head if necessary (optional)
- Incorporate new safety features in line with current standards (optional)

All machinery will be fully tested before leaving the factory to ensure it arrives on site ready to commence work immediately.



Servicing and Technical Support

With experience comes extensive knowledge and we have this in abundance when it comes to our product range. Our factory service personnel ensure that we have the ability to provide an extensive range of services when you require them. Whether you have one piece of equipment or many, the success of your business is important to us.

Our highly skilled engineers are involved from commissioning equipment, inspections, through to regular maintenance to keep your Coote Finlay products fully operational.

Technical support is available to give professional advice and aid through a simple phone call at +44 (0)28 8556 8123



Commissioning and Training

We understand that a block machine is a big investment and it is important to start producing quality blocks from the outset.

This is why our Coote Finlay engineers travel all around the world to commission all of our machinery on site at the customers premises.

Coote Finlay also provides a comprehensive training programme for all machine operators, equipping them with the correct skills, knowledge, and methods to operate our machines safely and at the highest level.



Safety Training Courses

Theory & Practical Training
Refresher Courses
Safety Demonstrations

PowerPoint Presentation
which Includes..

- Risk assessments
- Duty of care - Employee and Employer
- Working at height
- Personal Protective Equipment (PPE)
- Hydraulic Injection Injury
- Machinery Safety Features
- Main causes of accidents
- Daily safety checks
- Health & Safety legislation
- Video presentation on block machine safety procedures for mould change, frame height adjustment and wash out procedure.

A course certificate will be issued for participants who have fulfilled all of the course requirements.



Theory test on machinery safety awareness. Participants are taken through the operators pre-use daily check and safety awareness procedures step by step. Each participant individually completes an actual check sheet. All participants complete the course sign off procedure.

Notes:



CONTACT US

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COOTE PRECAST CONCRETE MACHINERY
finlay BLOCK MAKING EQUIPMENT



