

rapid



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Mobile
Batching



About us

Our story begins in 1969, in Northern Ireland. It was here that co-founders, Jim Lappin and Bertie Pickering, began manufacturing agricultural equipment in a humble domestic garage and Craigavon Engineering (now Rapid) was born. A lot has changed over the last fifty years, but our commitment to producing the highest mixing technology has not. Today, still family owned and operated, Rapid International is a leading mixing technology manufacturer to the global concrete, paving, construction, environmental and recycling industries.

With over 1000 installations and an established dealer network, we're perfectly positioned to meet your mixing technology requirements. Rapid's innovative product portfolio includes:

- Mobile Continuous Mixing Plant/ Pugmills (wheel/track mounted) Mobile Concrete
- Batching Plant Pan, Planetary & Twin Shaft
- Concrete Mixers Specialised Mobile
- Continuous Mixing Plant
- Mobile/Fixed/Custom/Compact Batching Plants
- High Pressure Mixer Washout Systems
- Silos
- Spare Parts

 Craigavon Engineering Ltd.

1969

1983



1983

2013





We take pride in our design and manufacturing process. Everything is designed **and** produced in-house, offering superior quality and control.

The Rapid Difference



Green energy powered

We take our environmental responsibility seriously. Our facility is powered by eco electric using our own 670 HP wind turbine.



Smart sourcing

We only use components of the highest quality, all of which are sourced from internationally recognised brands. This ensures we have a strong network of distributors throughout the world reducing lead times and offering superior customer support.



Lean manufacturing

Each machine is produced in our 65,000 sq ft purpose built factory. We invest heavily in our manufacturing capabilities and have the latest equipment, including a £1m paint booth and shot blasting room. We incorporate lean manufacturing methodologies through our entire design and production process.



In-house design

All Rapid products are designed by our in-house team of highly qualified engineers, using the latest 3D design.



In-house spare parts

We carry a large inventory of all our Rapid genuine spare parts. In order to reduce plant down time, Rapid can offer a same day dispatch on most items.



After sales service

With a service and support team of highly qualified technical operatives and service engineers, Rapid will ensure that all your after sales requirements are met with total professionalism and quality. All Rapid plant and machinery features 24 hour connectivity for remote support.

rapidbatch

Mobile Batching Plant

01

Additive System

2x 20 litre compartments sitting on loadcells, as standard. Customisation available.

02

Dust Extraction System

WAM dust filter. Screw conveyor enables dust to return to mixer.

03

Water Weigher

900 litre capacity weigher. Can be connected for both clean and recycled water.

04

Control System

Dynamix batching control system. Storage of up to 100 recipes.

05

Washout System

High pressure 2x pump mixer washout system (optional).

06

Optional Gensets

Emissions compliant diesel generators available.

21

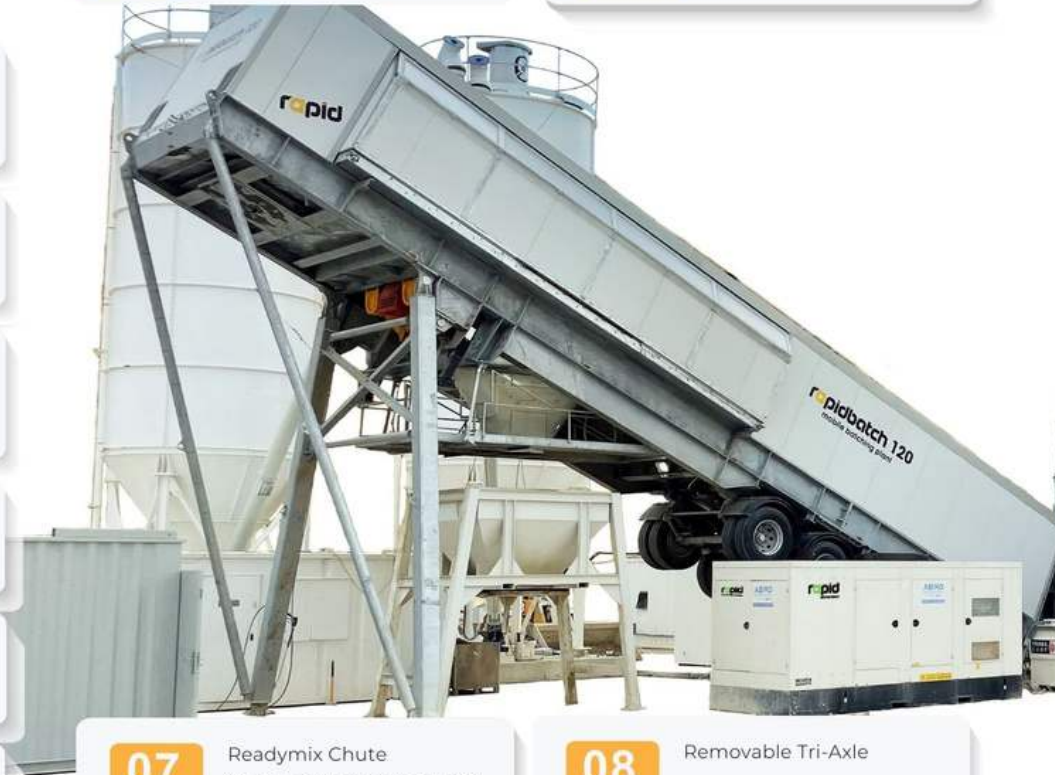
Cement Weigh Hopper

3 No. load cells. 1.45m³ capacity.

20

Silos

Connection for up to 4x silos.



07

Readymix Chute

Movable - mounted on wheels. Lined with 6mm Hardox 400.

08

Removable Tri-Axle

19

Weight Belt
12m cc weigh belt.

18

Twin Shaft Continuous Mixer
3m³ Rapid Twin-Shaft mixer. 2x
55kW drives. 20mm chill cast lined.

17

Control Cabin
Anti-vandal, fully insulated, with
window and 2 rooms. Can be
customised.

16

Jetwash System
2030 psi 2 spray heads.

15

Aggregate Bins
4 No 21m³ Hardox-lined storage bins
with vibrator and optional moisture
probe.

14

Compressor
4kW Hydrovac compressor with a

13

Bin Outlet Feeder
650mm wide belt on 1 aggregate
bin.

12

Easy Access
Spacious walkways for full access.

11

No Foundations Required
Hardcore footing only required
lifted (TST crane) and pinned into
position.



09

Extendable Greedy Boards

10

Removable Triple Axle
Bogie



The ultimate mobile batching solution. Rapidbatch offers high capacity, fast, powerful mixing in an ultra-mobile and easy to install unit.

The Rapidbatch Advantage



Ultra-Mobility

Easy transportation and fast installation with no foundations required, single crane lift and plug and play electrics.



Accuracy

Rapidbatch features accurate weighing of aggregates, cement, and water. The plant is expertly controlled by a state-of-the-art PLC processor, overseeing all plant functions seamlessly.



Powerful Production

Rapidbatch features enlarged outlets on aggregate bins for quick charging. The onboard twin-shaft mixer offers fast throughput and short mixing times. Specially phased paddles offer ultimate homogeneity.



Crafted for Endurance

Rapidbatch is fully galvanised, with an auto greasing system and heavy duty gearbox and hydraulic power pack. It also features hard wearing liners on weigh belt conveyor and bin outlets.



Flexibility

Rapidbatch offers unparalleled flexibility. Customise your plant with a vast selection of optional extras, such as winterisation, 90° or inline set-up, additional admixtures, various hopper grid choices, power changeover switches, auxiliary silos and mobile aggregate bins.



High Outputs

Rapidbatch offers outputs of up to 120m³ per hour, depending on application.

Rapidbatch Specifications

Module	Mixing Capacity	Bin Capacity	Batch Size	Generator Requirement	Length	Width	Height	Weight
Mixing Unit	120m ³ /hr		3m ³	450kVA	17.7m	3m	4m	38,500kg
Bin Unit	N/A	84m ³	N/A	N/A	16.6	3m	4m	35000kg
Control Cabin	N/A	N/A	N/A	N/A	4.6m	2.5m	2.5m	3,500kg

Your Plant, Your Way

Optional extras include, but are not limited to:

- Software units display- option for imperial or metric units.
- Fully winterised enclosure for plant, including heating systems for aggregates, water and mixer
- A range of silos from 30 tonnes to 1000 tonnes.
- Additional admixtures can be added to the system
- Precast bases to mount silos on for mobile and remote applications.
- In-line or 90° set-up configuration.
- Drive-through truck loading.
- Radial conveyor dump hopper for ground loading of aggregate bins (no need for ramps.)





Rapidbatch Applications

Our mixing technology is designed to handle the most complex and challenging applications. We collaborate closely with our customers to develop solutions for their unique requirements.

You don't have to look too far to find your nearest Rapid machine. You'll find our mixing technology on everything from RCC projects in Florida, to contaminated land treatment projects in China. Some examples of the applications we've provided machinery for are:

APPLICATIONS

- Ready-Mixed Concrete
- Precast Concrete
- Pre-Stressed Concrete
- Reinforced & High - Strength Concretes
- Shotcretes
- Self-Compacting Concrete
- Mortars & Screeds
- Decorative Concrete
- Coloured Concrete
- and many more...

PROJECTS

- Concrete Blocks & Bricks
- Concrete Pavers
- Precast Concrete Pipes
- Precast Concrete Beams & Columns
- Precast Concrete Utility Boxes
- Precast Wall Panels

Case Studies



We spent a lot of time considering what plant was available in the market. In the end, we opted for the Rapidbatch 120, as it was far superior than anything else we had come across; it was a decision we haven't regretted.

The build quality of the batching plant cannot be faulted. The basic steelwork on it is that much thicker than any of its competitors. We need our plant to be robust, reliable and capable of offering us longevity. The Rapidbatch ticks all of those boxes, plus it is very easy to use, very easy to clean, with all its parts readily accessible. It is very user friendly."

Adrian Wright - General Manager, Geo Concrete Products



transbatch

Compact Mobile Batching Plant

01

Aggregate Storage Bins

4 No 10m³ compartments with pneumatic discharge doors and electrical vibrator.

02

3m³ Rapid Twin Shaft Continuous Mixer

Chill cast mixing tools & paddles. Total access to mixer via top and side

03

Chassis

Fabricated from mild steel box sections, channels, angles with diagonal bracing.

04

Control System

Dynamix batching control system. Storage of up to 100 recipes and remote access.

05

Cement Weigh Hopper

1.25 m³ capacity, 3 No load cells.





06

Compressor

Hydrovane compressor and 250 litre receiver.

07

Belt/Transfer Conveyor

1000mm width belt with vulcanised joint, and 4No load cells.

08

Readymix Chute

6 mm thick steel cone with flexible rubber sock

09

Integral Control Cabin

1500mm x 2400mm

10

Water Weigher

300 litre capacity, 3mm mild steel, 2 No load cells.

11

Twin Axle Bogie



The Transbatch Advantage

Transbatch is a single-load, fully-mobile batching plant with outputs from 40m³/hr to 100m³/hr. Quick setup and fast mix times make it one of our most efficient plants to date.



Ultra-Mobility

Transportation is easy via a single load, road towable unit with stairs, walkways and aggregate bins which fold and partly dismantle for transport.



Powerful Production

Transbatch features a twin-shaft continuous mixer, with intermeshed paddles in a specially phased relationship to optimise mixing action, while maximising throughput.



Fast Set-Up

Installation is fast, in as little as ten days, with no foundations required.



Accuracy

Transbatch features accurate weighing of aggregates, cement, and water, with a tolerance of 1%. The plant is expertly controlled by a state-of-the-art PLC processor, overseeing all plant functions seamlessly. Feed rates are fully adjustable for the aggregate, cement and water systems



Flexibility

Transbatch offers unparalleled flexibility. Customise your plant with a vast selection of optional extras, such as winterisation package, high pressure mixer washout system, precast base, auxiliary silos and more.



High Outputs

Transbatch offers outputs of up to 100m³ per hour, depending on application.

Transbatch Specifications

MODEL (Transport dimensions)	MIXER	OUTPUT CAPACITY (per hour)	BATCH SIZE	LENGTH	WIDTH	HEIGHT	WEIGHT
TRANSBATCH 100	RT 3000	100m ³	3m ³	18m	3m	4.2m	36,520kg
TRANSBATCH 60	RT 1700	60m ³	1.7m ³	18m	3m	4.2m	33,500kg
TRANSBATCH 40	R1000	40m ³	1m ³	18m	3m	4.2m	31,100kg

Your Way Plant, Your

Optional extras include, but are not limited to:

- Additional admixsystemsandoptionsonoutputs.
- Aggregate bin options, including, no division plate, moisture probe/s.
- Auxillary silo - mobile and hardware ready options available.
- Software units display - option for imperial or metric units.
- Custom coloured plant - customer brand colours and decals.
- Precast bases for silos.
- Optional mixer washout system.
- Batch conveyor dust covers.
- Rotary-chute, dump hopper aggregate in-feed system.
- Mixer platform cover
- Weatherproof tarpaulin
- Sectional cladding



Transbatch Applications

Our mixing technology is designed to handle the most complex and challenging applications. We collaborate closely with our customers to develop solutions for their unique requirements.

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- Self-Compacting Concrete
- Mortars & Screeds
- Decorative Concrete
- Coloured Concrete
- and many more...

PROJECTS

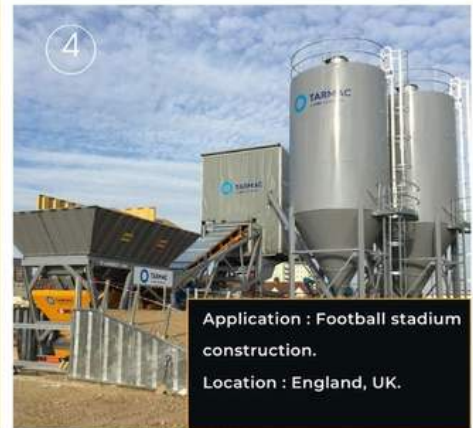
- Concrete Blocks & Bricks
- Concrete Pavers
- Precast Concrete Pipes
- Precast Concrete Beams & Columns
- Precast Concrete Utility Boxes
- Precast Wall Panels

Case Studies



The football club was very interested in the ultra-mobile concept, as the batching plant had to move to a different location mid project. They needed, however, to meet the 80m³ per hour requirements of their contractors. This was an opportunity to bolster the ultra-mobile fleet with a Rapid Transbatch 100M, capable of producing 100m³ per hour, while offering a solution to the stadium build. The plant was manufactured to order and the installation team managed the installation within three months – fantastic!"

Steve Hyde - Readymix Business Manager,
Tarmac.





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