



# MOBILE PLANT SOLUTIONS

FOR THE CONCRETE, CONSTRUCTION AND ENVIRONMENTAL INDUSTRIES



Aerial shot of the Rapid site



Rapid mixer 1983

## A WORLD CLASS PRODUCT RANGE



### MIXER RANGE

The heart of any concrete plant, Rapid's quality, durable concrete mixer range includes Pan, Planetary and Twin Shaft options. Built as standard with chill cast tiles, Rapid delivers low maintenance costs across the entire range. Rapid's Planetary option is ideal for the pre-cast industry as well as mixing semi-dry coloured concrete. Planetary outputs range from 0.375m<sup>3</sup> to 3m<sup>3</sup>.

The Rapid Pan (outputs 0.5m<sup>3</sup>-4m<sup>3</sup>) is the ultimate mixer for the ready mix industry due to its high outputs and Rapid is the sole UK manufacturer of 4m<sup>3</sup> output Pan mixers.

Rapid's range of Twin Shaft concrete mixers (outputs 1.7m<sup>3</sup>-4.5m<sup>3</sup>) are ideal for the ready-mix industry due to its high outputs, fast mixing time and compact design. Rapid's Twin Shaft mixers have heavy duty extra thick chill cast tiles throughout, offering low maintenance costs.



### MOBILE BATCHING PLANTS

Rapid's fully mobile Rapidbatch 70 and 120 mobile batching plant offers super mobile batching with outputs from 70m<sup>3</sup> to 120m<sup>3</sup> per hour. Fast on-site set up within one day means less downtime and increased efficiency for large construction projects.

Rapid's Transbatch (outputs of 40, 60 and 100 m<sup>3</sup> per hour) offers a more compact solution for mobile batching in a single load road towable unit, which folds and dismantles for transport. The Transbatch is perfect for remote location projects.



### MOBILE/SPECIALISED CONTINUOUS MIXING PLANTS

Totally mobile and fully self contained with its own power source and self erecting system, the Rapidmix mixes up to 400 or 600 tonnes per hour depending on application. Rapidmix is fully operational within 2-3 hours and is typically used for RCC (roller compacted concrete), road sub base and a wide range of environmental applications including contaminated land treatment and soil stabilisation.



### HIGH PRESSURE MIXER WASHOUT SYSTEMS

Proper mixer cleaning and maintenance is critical to prevent build up. The compact Rapid Jetwash High Pressure Mixer Washout System offers powerful concrete mixer cleaning in just 4 minutes using 2,000 PSI (140 BAR) water pressure, reducing mixer wear and increasing the potential lifespan of the mixer. Available in both 2, 3 and 4 pump models.

### FAST-TRACK SPARES

Rapid's service doesn't stop the moment your plant is erected; our in-house spares department provides a wide range of spare parts for all mixer types, silos and plant. Rapid offers high inventory levels and a FAST-TRACK service, combined with highly competitive rates.

### Craigavon Engineering Ltd.

1969

1983



1983

2013



## HOME OF THE CONCRETE MIXER

### A HOME GROWN SUCCESS STORY

Established in 1969, Northern Ireland based Rapid International delivers high quality, reliable equipment to the concrete, construction and environmental industries. Today, with a presence in more than twenty countries worldwide via an ever expanding international dealer network, Rapid is a trusted partner to a wide variety of customers ranging from multinational construction groups to small concrete producers.

### RAPID IS A GLOBAL LEADER IN THE MANUFACTURING OF:

- ▶ Pan, Planetary and Twin Shaft Concrete Mixers
- ▶ Mobile Continuous Mixing Plant/Pugmills
- ▶ Specialised Mobile Continuous Mixing Plant
- ▶ Mobile/Fixed/Bespoke/Compact Batching Plants
- ▶ High Pressure Mixer Washout Systems
- ▶ Silos
- ▶ Spare Parts

Rapid's vast experience over the last four decades ensures the highest quality design and manufacture of all equipment. Quality, reliability, efficiency and technological advancement are the greatest aims of Rapid's workforce, based at its impressive 50,000 sq ft production facility and headquarters in County Armagh, Northern Ireland. Always innovating, Rapid's emphasis on product development is driven by the needs of its wide-reaching customer base, and the company's in-house technical team consistently strive to meet the demands of total quality while exceeding customers' expectations.



**transbatch**

The Transbatch is a single load, fully mobile batching plant which offers outputs from 40m<sup>3</sup>/hr to 100m<sup>3</sup>/hr. With quick setup and fast mix times this makes for one of our most efficient plants to date.

**transbatch 100M**  
mobile mixing plant

## PLANT MODELS

- ▶ **TRANSBATCH 100**  
RT3000 Twin Shaft (3m<sup>3</sup> output) with chill cast tiles and mixing tools.
- ▶ **TRANSBATCH 60**  
RT1700 Twin Shaft (1.7m<sup>3</sup> output) with chill cast tiles and mixing tools.
- ▶ **TRANSBATCH 40**  
R1000 Pan (1m<sup>3</sup> output) with chill cast tiles and mixing tools.

## FEATURES

- ▶ 4 x 10m<sup>3</sup> aggregate bins with pneumatic discharge doors. Folds and partly dismantles for transport.
- ▶ Weighing belt that transports the material to mixer.
- ▶ Cement weigh hopper with aeration and pneumatic vibrator. Pneumatic outlet butterfly valve.
- ▶ Water weigher with pneumatic butterfly valve and pipework to mixer.
- ▶ Twin additive meters with 2 x pumps (more additive meters can be added as optional extras).
- ▶ Stairs and access walkways around mixer fold and dismantle for transport.
- ▶ Chassis structure with support legs, twin axle bogie and fifth wheel coupling.

## PLANT CONTROL FEATURES

- ▶ Built-in secure cabin positioned at truck loading area.
- ▶ Automatic control system with load cells, starter panel and pneumatics panel.

## OTHER FEATURES

- ▶ Water connection pipe at rear of machine allows supply to be connected.
- ▶ Compressor with receiver and drier.
- ▶ Discharge chute with rubber sock.



Transbatch in operation



Twin Shaft mixer

Internal of Twin Shaft mixer



Transbatch in transit



Aggregate bins

## OPTIONS

Our vast experience over the last 40 years has led us to the understanding that every project has unique requirements. As such, Rapid can offer a selection of optional extras to accompany our entire range of plant. Available optional extras for Transbatch include:

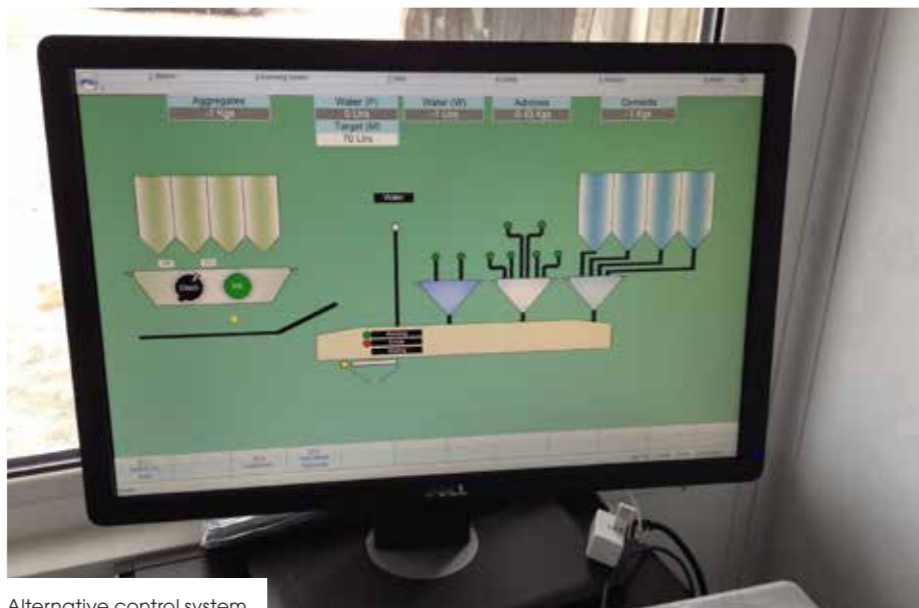
- ▶ **Silos** Sizes range from 30 tonnes to 1000 tonnes.
- ▶ **Precast bases** Rapid can provide precast bases to mount silos on for mobile and remote applications.
- ▶ **Admixtures** Additional admixtures can be added to the system if needed.
- ▶ **Wash-out system** The Rapid Jetwash system can be added to Transbatch for automatic mixer cleaning.
- ▶ **Winter Package** Fully winterised enclosure for plant, including heating systems for aggregates, water and mixer.
- ▶ **Control System** Alternative automated control systems are available.
- ▶ **Ice / Microsilica weigh hopper** Additional weigh hopper for warm climates.



Transbatch silo



Mixer Jetwash

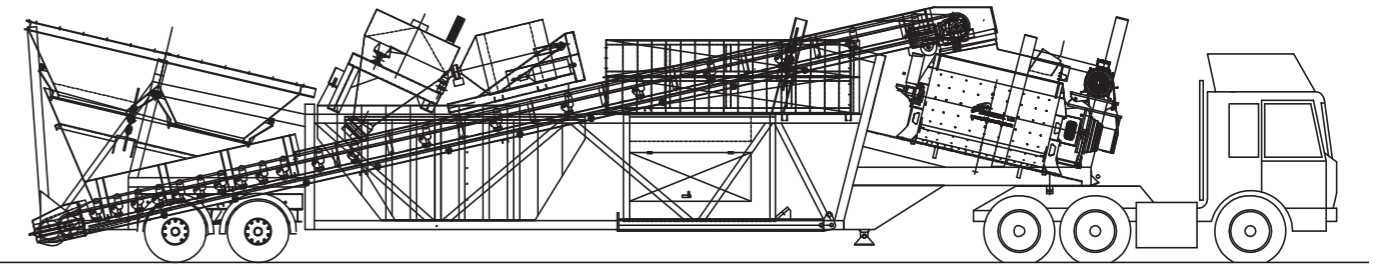


Alternative control system

## TRANSBATCH SPECIFICATIONS

MODEL (Transport dimensions)	MIXER	OUTPUT CAPACITY (per hour)	BATCH SIZE	LENGTH	WIDTH	HEIGHT	WEIGHT
<b>TRANSBATCH 100</b>	RT3000	100m <sup>3</sup>	3m <sup>3</sup>	18m	3m	4.2m	36,520kg
<b>TRANSBATCH 60</b>	RT1700	60m <sup>3</sup>	1.7m <sup>3</sup>	18m	3m	4.2m	33,500kg
<b>TRANSBATCH 40</b>	R1000	40m <sup>3</sup>	1m <sup>3</sup>	18m	3m	4.2m	31,100kg

Above weight does not include tractor unit



Rapid Transbatch in transport



Transbatch assembly



Aggregate bin filling

## APPLICATIONS

Rapid's Transbatch is a superior choice for a wide varying selection of construction projects, including but not limited to:

- ▶ Road building
- ▶ Housing developments
- ▶ Commercial yards
- ▶ Car parks / parking lots
- ▶ Pavements / sidewalks
- ▶ Wind farm bases
- ▶ Warehouse flooring

# CASE STUDIES

Rapid International products have successfully been deployed on numerous different projects around the world, some examples of which are below:

## transbatch



**Readymix concrete**  
Northern Ireland



**Readymix concrete**  
Ireland

WE ARE PROUD TO BE SUPPLIERS TO THE FOLLOWING LEADING GLOBAL COMPANIES:-

CEMEX, HOLCIM, HEIDELBERG, LARFARGE/TARMAC, ODEBRECHT AND MANY MORE...

## rapidbatch



**Airport project**  
Latvia



**Concrete road building and readymix**  
Russia



**Wind farm project**  
Scotland



**Wind farm project**  
Sweden

## rapidmix



**Airport runway**  
Russia



**Dam building**  
Mexico



**RCC**  
Canada



**Road project**  
Australia



**RCC**  
South Carolina



**Soil stabilisation**  
California



**Road base**  
Australia



**RCC Paving**  
UK



Large spares inventory

# BENEFITS OF CHOOSING RAPID INTERNATIONAL



### IN HOUSE DESIGN

All Rapid products are designed by our team of highly qualified engineers, using the latest 3d design software.

### MANUFACTURING FACILITY

Everything is produced in our 50,000 square foot factory. We take pride in our manufacturing capabilities and have the latest equipment, including:

- ▶ Kaltenbach KBS620 DG/T Drill & Saw Line
- ▶ Esab Suprarex SXE-P 3500 Plasma
- ▶ Ermaksan HGD3100X13 Guillotine
- ▶ LVD PPEB 220 Press
- ▶ Excel AHS30/04 Plate Rolls
- ▶ Akyapak APK100 Section Rolls
- ▶ Colchester Combi K2 Lathe
- ▶ Colchester Combi 4000 Lathe
- ▶ Richmond VMC1020 Mill
- ▶ Hodge Clemo shot-blasting room and Dalby paint booth

We also incorporate lean manufacturing, which starts at the design stage of our products and is implemented throughout the process to reduce waste.

### SMART SOURCING

We only use components of the highest quality, all of which are sourced from internationally recognised brands. This not only ensures that we have the highest quality components but we have a strong network of distributors throughout the world reducing lead times and offering superior customer support.

### SPARE PARTS

We carry a large stock 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 SUPPORT

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.

### ENVIRONMENTAL CONSIDERATIONS

We take our environmental responsibility seriously. Our facility is powered by eco electric using our own 500kw wind turbine.





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