



# Cowie and Riding

## Continuous Mixers for Industry

### CR mixer range specifications

Type	Rotor Size (inch)	Number of Rotors	Number of rotor teeth	Nominal Output (Kg/hr)
CR 2 Single (Lab)	2	1	168	3-15
CR 6 Single	6	1	446	100-300
CR 8 Single	8	1	624	300-800
CR 10 Single	10	1	796	810-1500
CR 14 Single	14	1	984	1500-2500
CR 17 Single	17	1	1316	2500-4000
CR 2 Twin (Lab)	2	2	336	3-15
CR 6 Twin	6	2	892	100-300
CR 8 Twin	8	2	1248	300-800
CR 10 Twin	10	2	1592	810-1500
CR 14 Twin	14	2	1968	1500-2500
CR 17 Twin	17	2	2632	2500-4000

### Options

- Automatic control of pump speed by Liquid Flow Meter
- Automatic control of air rate by Air Mass Flow Meter
- Touch-screen control panel
- Automated dosing and injection of liquid additives
- Mixer back-pressure control valve
- PLC control of operation with operator terminal
- Automated rinsing including CIP option
- Post-mix blender for adding products such as gelling agent
- Various feedback control capabilities

[www.cowieriding.com](http://www.cowieriding.com)



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Manufacturers of the CR range of Continuous Mixing Machines, Foaming Machines and associated equipment for the Floor Covering, Textile, Chemical, Bakery and Confectionery Industries.



## CR mixer for Industry

### Single or Twin Rotor

## Excellence through continuous performance

Efficient mixing and foam production demands consistent, reliable and highly effective processes. Equipment must be fit for purpose, precisely adapted to your needs and engineered to deliver the best performance at all times.

Cowie and Riding is a British engineering firm that has spent over four decades designing and building continuous aerating and mixing machines for a wide range of applications. With sizes and output rates to suit most manufacturing processes, they offer exceptional quality at competitive prices.

The CR Mixer is a powerful yet compact mixer, with a proven system of twin concentric rotor blades able to deliver consistent results on a continuous basis. The unique patented design allows a directional flow of products, giving a far larger mixing surface area, which produces a more uniform mix and a finer bubble size. The CR also has the facility to inject up to four additives, such as colour or a gelling agent, as well as the option of post-mix blending. The mixers can be operated manually, or as part of an automated system.

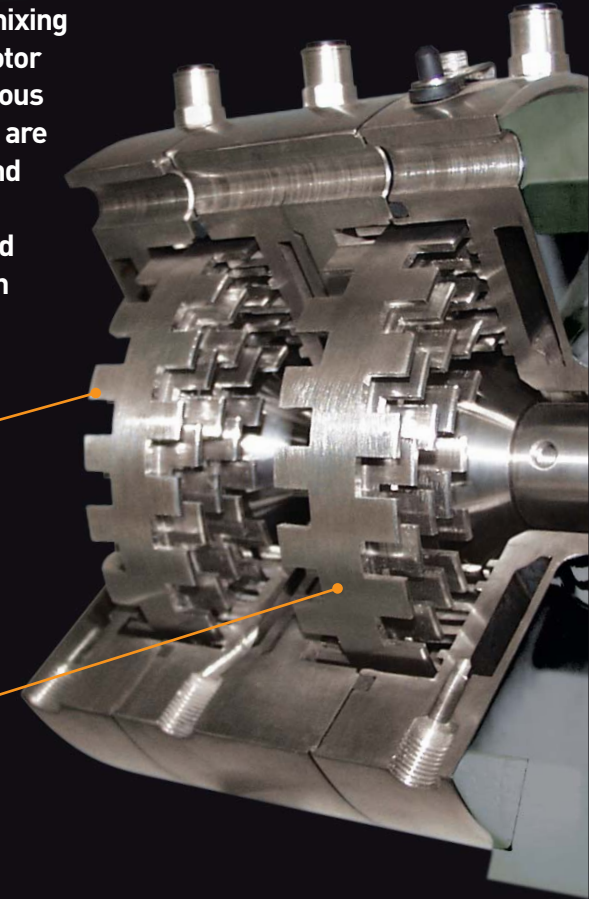
### The CR Mixer range gives you:

- Perfect, repeatable, consistent mixing/aeration
- Continuous mixing, for long or short periods
- Easy to use and maintain
- Automated CIP cleaning, or other methods
- High-grade 316 stainless steel
- Available in a range of output sizes
- Up to four Injection ports for liquid additives
- Precision engineered for 40 years
- Automation through feedback control

The simple but effective design makes Cowie and Riding mixers reliable and efficient – built from 100% stainless steel, they are quick and easy to clean and maintain, reducing downtime and cutting waste.

Each machine is designed and built to the highest specifications by expert engineers in the UK.

Inside the Cowie and Riding mixing machine is a patented twin-rotor dynamic mixer with a continuous feed pumping system. Rotors are mounted on a central drive and positioned to mesh closely with three static, water-cooled elements to create a precision mixing or aeration process.



CR mixers can be used for the homogenous mixing of liquid products, or the production of foam by aeration of a liquid product, with the further capability of also injecting up to 4 additives into the mixer during processing, 2 at the beginning of the mix, and 2 before the end, with the further option of post-blending of products into the product mix or foam.