



Rapid Turbulent Mixing



RT
RANGE

Mixing all ways



RT Range – Rapid Turbulent Mixer

The RT (rapid turbulent) mixer blender delivers homogeneity and highly efficient mixing.

RT Benefits

- High speed rotating shaft, enclosed in the fully cylindrical chamber, allows maximum dispersion and distribution of the mix.
- The turbulence caused delivers super fast mixing times and RT lines can be designed to accommodate rapid loading and discharge options, thus ensuring the RT run time from Winkworth delivers very high throughput and hence high added value to the producer.

Standard Features

- Cylindrical form chamber with high speed central shaft rotation.
- Integrated inlet and outlet arrangements.
- Access hatches – loading, cleaning, inspection, etc.
- Clean line construction in stainless steel.
- Compact space saving design.
- "Multigland" * shaft seal.

* Multigland details upon request.



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Stainless steel construction for all parts in contact with the mix is a speciality. The finish, internal and external, can be polished, bead blasted or left as mill finish. Special steels and finishes are available for more abrasive mixes which can be combined with replaceable wear strips on the blades and hardened refiner blades.



Options

- **Heavy duty models** are available for more arduous applications.
- **Inlets** can be supplied to suit the customer's process and requirements.
- **Continuous models** which provide a continuous mixing process can be supplied for some processes and applications.
- **Jacketed options** for steam, oil, water or electric heating or glycol-water for cooling.
- **Outlets** available include flush fitting bomb doors (with choice of sizes and full length), special slide, plug, ball and butterfly, either pneumatic or manually operated valves.
- **Vacuum models** are available for drying and de-airing applications.
- **Refiners** – standard, 'tulip', multi-head, retractable and pivoting refiners are available in standard and heavy duty styles. Additional refiners can often be fitted to increase the shear within the mixture.
- **Control panels** can have PLC, HMI touch-screen.
- **ATEX** certified models can be designed and manufactured for processes involving flammable or explosive atmospheres.
- **Other special features** such as: guarding, dust socks, explosion panels or suppression, loading and discharge heights, internal and external finishes, load cell mounts, extension bases, etc, can be specified when required.



Rapid turbulent mixers are used across many industries, typical applications include:

Biscuit doughs, cake mixes, sugar pastes, food ingredients, pastries, seasonings, ceramics, powders, brake linings, pharmaceuticals, sealants, household products, catalysts, adhesives, slurries, PVC pastes, waste reclamation, rubber solutions, agrochemicals, fibreglass doughs, etc.

Winkworth is the largest UK industrial mixer manufacturer with a long and respected history in providing bespoke mixing solutions from lab size to full scale production models. Winkworth mixers are used across a range of industries including food, chemical, pharmaceutical, ceramic, metal and plastics and for a

variety of applications, including gums, pastes, powders and liquids. Winkworth's equipment is uniquely engineered to customer requirements, supplied and installed worldwide and can be available as a mixer hire option. Full trials are available at their Mixing Test Centres.



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