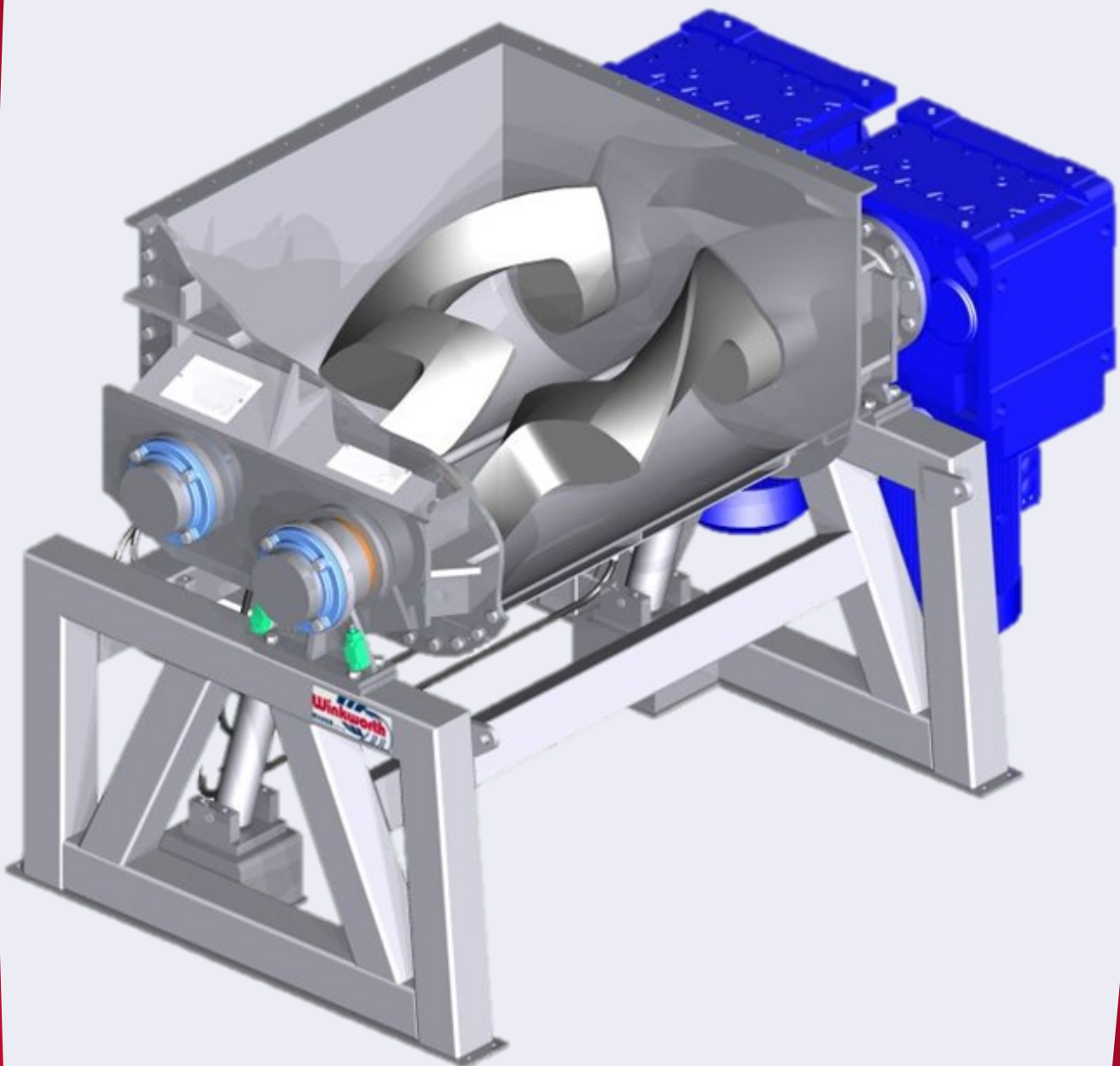




# Production 'Z' Mixer

**A robust, high shear mixer suitable for  
high viscosity and dense materials**



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**always mixing, all ways**

A stylized graphic of a globe or a series of curved lines in blue and red, identical to the one in the top left logo.

## Standard Features:

The standard range of Winkworth Z blade production mixers are robustly engineered and feature many innovative features, catering for a wide range of applications.

- Kneading action provided from 2, high shear 'Z' shaped mixing blades. Machined from solid castings
- An hydraulically tilting trough allows simpler discharge and cleaning of the mixer, other options are available on request
- Robust support frames with space saving 'footprint'
- Compact drive Units
- Accurate blade clearance for precise radial and end clearance
- A standard safety interlock system prevents access to the mixing chamber during operation
- Robustly designed specifically for the mixing of tough materials
- Blades rotate at different speeds to produce a uniform mix in the product
- Removable glands and housings facilitate quick and easy cleaning and repacking of glands when required
- A strong clean line frame gives rigidity and helps cleaning by reducing dirt traps
- Lid designs assist charging either automatically or manually



**Z850 mixer used in the food industry**

### Choosing a mixer couldn't be easier:

Trial Facilities at our Swallowfield test laboratory give many options such as heating and vacuum etc.

Hire a machine, dependant on availability, before purchase and to help ease the move from pilot to production

Discuss your requirements with our engineers and designers to ensure the machine you buy will fulfil your requirements

## Options:

### Standard 'Z' Blades

### Single curve dispersion

**Blades** of various types including 'Z', Dispersion, Naben and Butterfly types are available. On most models blades can be cored and custom blade designs can be tailored for on request.



**All sizes** can be Designed and manufactured to suit special purposes

**Extra heavy duty models** are available for more arduous applications

**Stainless steel** construction for all parts in contact with the mix is a speciality. The finish, internal and external, can be polished, glass beaded 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 liners on the pan.

**Other special features** such as guarding, venting, loading and discharge heights, internal and external finishes, load cell mounts, cored blades etc. can be specified when required.

**ATEX** certified models can be design and manufactured for processes involving flammable liquids or explosive powders.

**Discharging** by various methods can be supplied, from the standard tilting discharge, to bottom discharge valves. Our sales engineers can help select the most appropriate for the application and process.

**Design** Winkworth are able to provide a completely bespoke design and manufacturing service, tailoring the Z blade mixer range to most plant or process needs.

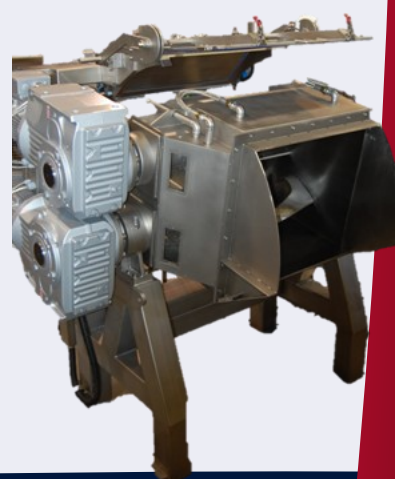
**Control panels** are optional and can be designed to incorporate any additional instrumentation that is required such as temperature indication and control, load cell indication, HMI, data logging and controls for other machines within the system as well as Inverters

**Jacketed troughs** for steam, oil, water or electric heating or glycol-water for cooling.

**Inlets and lids** can be supplied to suit the customers process and requirements, integrating into an automated system or for manual loading.

**Vacuum models** are available for drying and de-airing applications

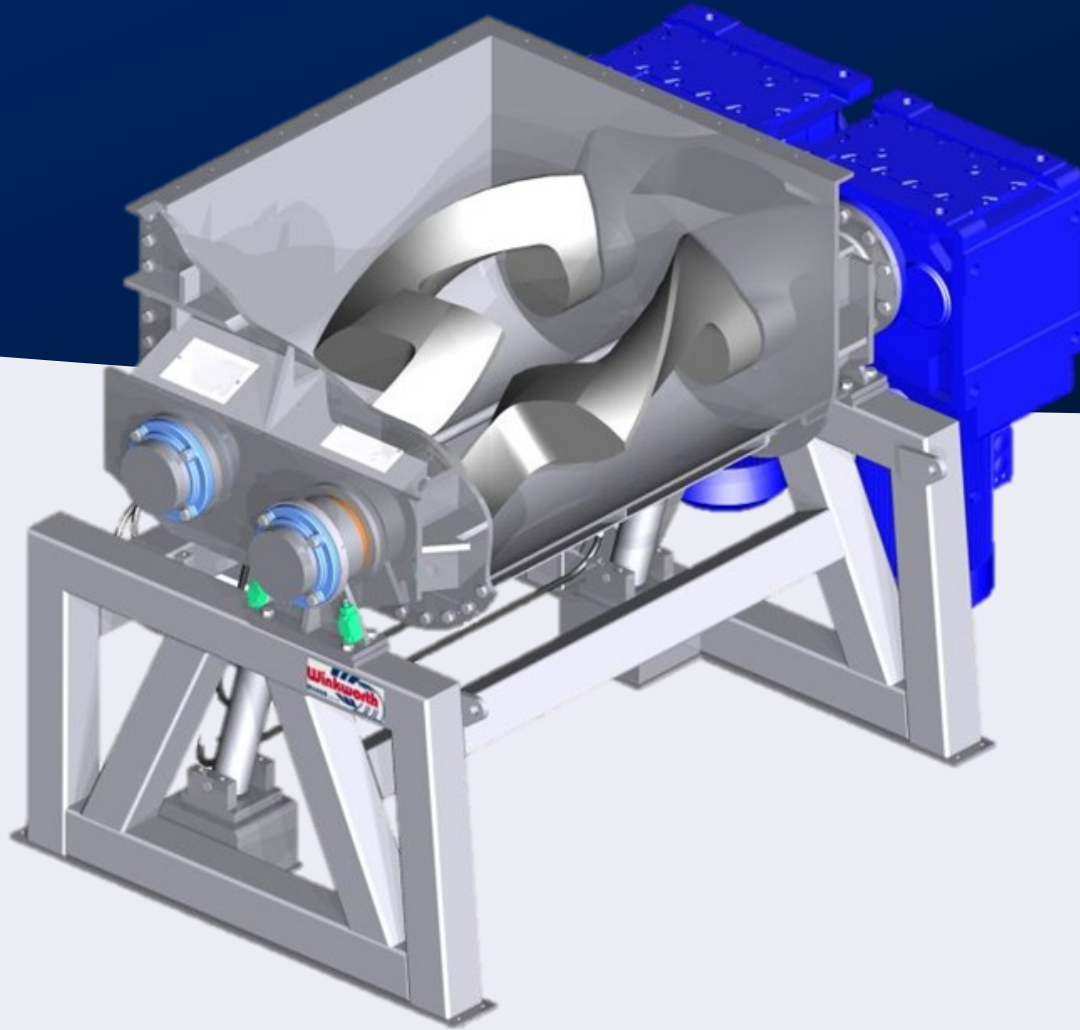
**Drives** can be offered with Inverter variable speed or flameproof electrics.



Tilting discharge of a 'Z' blade mixer



# 'Z' Blade Production Mixer 3D Design Image



Model	Approximate Capacity (Litres)		Trough Dimensions (mm)		Approximate Mixer Dimensions (mm)		Standard drive Unit (kW)
	Total	Working	Length	Diameter	Length	Width	
Z150	260	150	700	700	2480	1540	7.5—22
Z200	335	200	737	787	2690	1680	11—30
Z250	403	250	887	787	2840	1680	11—30
Z450	670	450	1090	956	3535	1760	18.5—45
Z650	1050	650	1200	1175	3820	1760	22—45
Z850	1180	850	1350	1200	3950	1940	22—55
Z1600	2400	1600	1283	1600	3069	1920	30—90

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