



Mixing and Dispensing Equipment

*World Class Silicones
for Worldwide Solutions*



Mixing & Dispensing Equipment

ACC Silicones have teamed up with a major European manufacturer of high quality, reliable dispensing machines to compliment our extensive range of silicone compounds.

Our understanding of silicone chemistry and the equipment will enable us to support production engineers who require automated dispensing solutions. We can offer simple easy to use machines for 1 or 2 part silicones as well as more complicated turn key packages. Machines will be supplied with full warranty and technical backup. The equipment manufacturer will provide a comprehensive range of after sales service support, including maintenance support and spare parts.

Automated dispensing offers the following benefits:

- Eliminates operator error
- Maintains correct mix ratio
- Effective mixing
- Controllable dispensing rate
- Exact dispense volumes
- Minimum wastage

2-Part Mixing and Dispensing

Automated

Piston pump machines offer very accurate micro-shot dispensing. They can be simple light table top or high output stand alone machines. Depending on the viscosity of the material it can be gravity fed from reservoirs, or automatically pumped, directly from supply containers. They can be linked to a robotic 2 or 3 axis interface to provide a fully automated system.

Features:

- Piston pump delivery
- Wide viscosity acceptance
- Ideal for short beads and precise volumes
- Fixed mix ratio from 1:1 to 20:1

Suitable for dispensing:

- Silicone gels and encapsulants
- Higher viscosity encapsulants and adhesives



Gear Pumps

Gear pump technology is utilised to provide a precise constant output of mixed material. They can be used to put down long beads of adhesive or dispense encapsulation and moulding materials. The smaller bench top machines can dispense up to 2.0 ltrs per minute with the larger machines up to 4.8 ltrs per minute. Material can be gravity or direct feed.

Features:

- Electric drive
- Variable mix ratio 1:1 – 100:1
- Anti-drip valve
- Optional programmers
- Continuous flow or timed shots

Suitable for dispensing:

- Silicone gels
- Silicone encapsulants
- Silicone moulding rubbers



1-Part Dispensing

Medium to high viscosity materials can be dispensed using 20 ltr and 200 ltr pail presses; these can be electrically or pneumatically driven. Accurate metering and control can be simply achieved using a range of dispensing valves and electronic timers.

Dispensing Guns & Nozzles

Mixing is normally provided by disposable static mixers attached to the specially designed dispensing guns. For materials of higher viscosity that require more shear mixing can be carried out using a rotary/static mixer. For very difficult materials a dynamic high shear mixing head can be fitted. This will however require purging and solvent flushing. Static and Rotary/Static mixers do not require cleaning or purging and are inexpensive to operate.



Ancillary equipment

When dispensing highly filled products such as QSi553 it may be necessary to fit automated stirring systems into the reservoirs to prevent any settlement. Moving parts can be hardened to reduce the wear from abrasive fillers. Bulk feed systems can be designed to feed the reservoirs to reduce the need for operators to handle the materials.

Testing & Evaluation

Following a detailed survey of your materials and dispensing requirements ACC can arrange to have your chosen material tested with the equipment ensuring complete compatibility.



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ACC Silicones have been manufacturing silicone compounds for over 35 years and has gained an enviable reputation for proven performance and quality with materials being certified for use in the most demanding applications within the aerospace industry. Much of ACC's research work has been focused on Electrical and Electronic applications developing coatings, thermal transfer compounds and non-corrosive sealants. Our customer focused development program and flexible-manufacturing plant enables us to keep pace with the needs of today's modern production methods and design requirements. Qualified, experienced sales and technical staff are readily available to make site visits and advise on product selection and production methods. ACC Silicones group of companies has grown over recent years to include technical research and production facilities in the UK, mainland Europe and the US. Our expertise extends into all areas of 1 and 2-Part RTV silicone chemistry, with a strong bias towards application-based solutions.

Bespoke Production Facilities

Our flexible facilities based upon batch production allow us to offer formulations to meet very specific application requirements. Subject to strict commercial evaluation we are able to chemically engineer our products and change the following properties.

- Rheology: paste to free flowing low viscosity
- Cure speed and tack free times
- Thermal conductivity
- Hardness
- Colour
- Operating temperature range
- Cure mechanism
- Packaging and delivery systems



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