



Series CMR Synchrobloc

Tare & Gross Filling and Capping Systems

The Series CMR continuous motion rotary offers high-speed, high accuracy filling for a wide variety of powders and granules.

With turret sizes from 500mm PCD to carrying 12 to 48 transfer funnels, production output up to 400 containers per minute can be reached. One, two, three and four filling head configurations are available, dependent upon the size of container neck opening and powder flow characteristics.



All-Fill's Continuous Motion Rotary systems fill exceptionally cleanly. The powder is progressed from a bulk feed system into the container via a completely sealed turret assembly.

The fillers can be offered with fully integrated check-weighing and reject systems, together with full feedback to the filling head for automatic correction of volume dosed.

The fill weight performance of the filling machine can be displayed in 'real-time' graphical form on the touch-screen HMI.

All powder contact parts are recess-free for easy cleaning and can be removed and re-assembled speedily without the use of tools. Containers handling parts are quick-release and colour-coded for super-fast changeovers.

Powder flow characteristics will determine the system of transfer from the funnel into the containers. Where vibration is employed, only the special flexseal and the container is vibrated/jogged, reducing inertia and noise levels.

With small doses of sticky powders, All-Fill's unique pulsed air technology prevents product bridging in the funnels.

For glass bottles and other containers of inconsistent weight, integrated tare-and-gross weigh systems can provide 100% net weight validation.

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Pharmaceutical Filling Technology

The pharmaceutical industry demands the highest standards of quality as defined by design, materials, workmanship, GMP, accuracy, usability, security and reliability. Since these same qualities have been the guiding principles since All-Fill was founded in 1969, it is no coincidence that this important sector accounts for an increasingly significant proportion of All-Fill's total production.

All-Fill is able to meet the widest range of customer requirements, from individual machines to complete turnkey lines, from fine fluffy sticky powders through to free flowing granules, all with the option of fully integrated weight control systems. All-Fill support includes a full validation documentation package, with protocols and experienced personnel to assist with installation and operation qualifications.



100% Nett Weight Validation

Floor-mounted high-resolution digital balances integrated within the rotary filler base frame, one upstream/one downstream of the filling/transfer turret, provide 100% nett weight validation.

Tare and gross weighing statically provides far higher accuracy than could be achieved with traditional dynamic check-weighers. Full integration guarantees mechanical registration, with faster response times, reduced line length and single panel set-up.

Twin pinwheels, one set each at the infeed and outfeed turret star-wheels, present bottles onto the tare and gross load-cells, for high resolution static weighing



All-Fill International Ltd has harnessed over 40 years of powder filling technology to offer its customers the following benefits:

The Company

- ▼ ISO9001 accredited and fully compliant with UK and EU standards
- ▼ Ex (ATEX) certified
- ▼ Manufacturing base in the UK
- ▼ Worldwide Agent and Distribution network
- ▼ Turnkey project capability with full after-sales support and service
- ▼ In-house customer test and demonstration facility
- ▼ 3D CAD-equipped in-house design department for bespoke filling solutions for non-standard applications

The Equipment

- ▼ Fully enclosed filling head mounted on a solid head support plate for strength and rigidity
- ▼ Stainless steel contact parts as standard on all machines
- ▼ Augers designed to a high technical specification and machined from solid stainless steel.
- ▼ Servo drive fitted as standard
- ▼ PLC control via touch-screen HMI panel with memory of all variable parameters
- ▼ Independent agitator drive system permitting 4 modes of agitation for optimum product handling
- ▼ Self-aligning quick-release hopper, auger and funnel, removable without tools in seconds

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Capping System



Zalkin rotary capper highlights:

- ▼ Multiple mid to high speed models and options accommodate a wide range of output up to 60,000 bph
- ▼ 3 to 24 capping heads
- ▼ Five standard pitch diameters: 300, 360, 480, 640 & 720 mm PCD
- ▼ Closure diameters from 18 mm to 120 mm
- ▼ Neck handling for light weight flood filled containers that cannot be squeezed during capping
- ▼ Fast, tool-less capping head changeover
- ▼ Stainless steel construction
- ▼ Custom pitch diameter configurations are available
- ▼ Multi-turret configurations on the same base are available

Within the synchrobloc system the capper is close coupled electronically and mechanically with the filler. The positive transfer of the bottle is done via a transferring scroll, picking up the bottle from the filler outfeed starwheel and transferring it up to the capper infeed starwheel.

A bottle rejection station and a bottle rejection conveyor are located at the capper outfeed. This will also allow the rejection of a badly filled bottle following a signal from the All-Fill filler.

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Pharmaceutical Rotary Systems

Continuous Motion Rotary, Continuous Dosing

For highest speed, continuous filling with a knife-edge plate dividing the continuous powder flow equally into the transfer funnels. Particularly suitable for larger doses, 10g to 100g. Seals between the filling nozzle (auger/funnel) and the knife-edge plate keep bottles, machines and environment dust-free.

Pharmaceutical powders with different characteristics require different engineering solutions. All-Fill have the widest range of high speed, high accuracy rotary macro-dosing equipment available.



18 pocket, twin head Intermittent Dosing Continuous Motion Rotary machine for filling macrolide antibiotics, 15g to 30g, into glass and plastic bottles. Features include:

- ▼ Tare weigh stations to weigh empty bottles
- ▼ Gross weigh stations to weigh filled bottles
- ▼ 100% nett weight validation
- ▼ Reject station with conveyor for out-of-tolerance filled bottles
- ▼ 21CFR Part 11 compliant audit trail for weight validation

CMR Standard Features

- ▼ Dust-free filling
- ▼ Quick-release, no-tools changeover
- ▼ FDA approved silicone “flex-seals”
- ▼ Auger machined from solid
- ▼ All stainless steel contact parts
- ▼ Turret jogging system
- ▼ Servo-driven auger
- ▼ Servo-driven main turret
- ▼ Independent agitation drive
- ▼ Fully enclosed dust retention and extraction system
- ▼ PLC control via touch-screen panel

Options

- ▼ 1 to 4 filling heads
- ▼ 12 to 48 transfer funnels
- ▼ Vibration or pulsed air technology
- ▼ Check-weigher or fast response balance feedback
- ▼ Integrated tare-and-gross weighing
- ▼ Lean-Clean 56 Litre Split Hopper
- ▼ Hopper Level Probe
- ▼ Bulk Feed Accessories
- ▼ Full stainless-steel specification
- ▼ 316L stainless steel contact parts

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Validation



All-Fill are able to provide their pharmaceutical clients with a complete documentation package to facilitate pre-production validation, and experienced support to assist with on-site validation.

The documentation package includes full process description, software ladder diagram, installation and maintenance instructions, mechanical and electrical drawings, pre-delivery testing protocols and installation/operation qualification protocols.

Turn-key Lines

All-Fill International's staff also has the engineering expertise to offer clients a single-source service for all equipment within the packaging line. Machines are selected from specialist manufacturers following detailed discussions with the client to establish a specification. Functions such as container sorting/cleaning, capping, sealing and labelling can be incorporated into the filling line together with powder bulk feeding, metal detection and check-weighing systems.

Complete lines are fully assembled at our production facility where Factory Acceptance Tests (FATs) prove performance and compliance with specification. All-Fill take turnkey responsibility for the entire filling line and from the first discussions, offer a single point of contact for specification development, order placement, project management, installation, commissioning and after-sales support.

Technical Back-up



Good design, quality components and precision engineering are the hallmarks of a good product. This winning combination gives All-Fill its technical edge, confirmed by a formidable list of "blue chip" customers.

Precision engineering requires a highly trained and skilled workforce. The manufacturing and production plant in Sandy, Bedfordshire boasts a workforce with the complimentary skills and crafts necessary to design and manufacture machinery with a build quality second to none, ISO9001 accredited for design, manufacture and after-sales support.

Our staff, many with a lifetime's expertise in powder filling, are on hand to provide advice, assistance and training – **the complete technical back-up.**

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All-Fill Worldwide Network

- ▼ Manufacturing bases
- ▼ Countries served by All-Fill International Ltd
- ▼ Countries served by All-Fill Inc.

All-Fill have become a leading supplier of macro-dosing systems to the pharmaceutical sector with sales and support organisations the world over. The manufacturing operations have embraced the latest technologies and are ISO9001 accredited for design, manufacture and after-sales support.

This wealth of experience and commitment to innovative engineering and quality make All-Fill the definitive source for pharmaceutical powder filling solutions.

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