



SCHEMATIC[®]

Containment | Reliability | Flexibility



INNOVATIVE

SMART & INNOVATIVE SOLUTIONS



SOLUTION PROVIDER FOR PHARMACEUTICALS, CHEMICALS AND FOOD INDUSTRIES

Thanks to our relentless innovation
and customer support, here's

OUR STORY IN NUMBERS

+1000

Isolators delivered
globally

+500

Powder Transfer
Systems delivered

+150

Customers across
the globe

+200

Over 200 employees
& partners globally

+12

Patents in innovative
products

45,000

Over 45,000 Sqft
of manufacturing
and testing area

EXCELLENCE THROUGH QUALITY

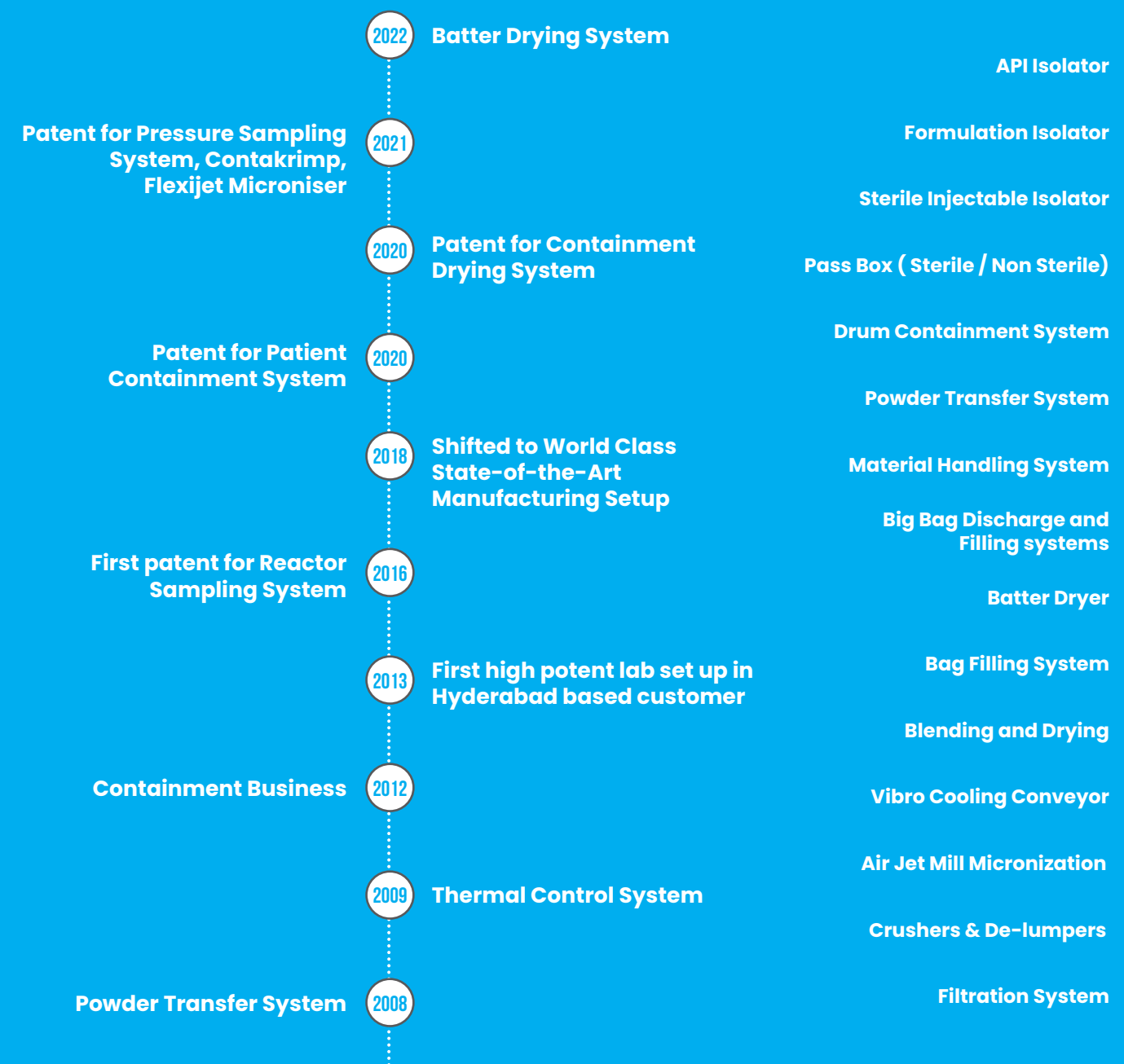
Schematic Industries has gained a strong reputation for excellence in the Indian and overseas marketplace based on innovation, commercial positioning, and quality workmanship, which is underpinned by a strong, unquenchable desire to provide exceptional customer service.

Quality

Delivering innovative solutions for

CONTAINMENT & PRODUCT TRANSFER

to Pharmaceuticals, Chemical and Food & Beverage industries





ABOUT OUR COMPANY

Schematic Engineering Industries is an international manufacturer of complex industrial systems and automations. We are specialists in the supply of Powder Transfer System, Containment and Barrier isolator equipment including Glove Boxes and ancillary products for processing hazardous substances in the Pharmaceutical, Food and Chemical industry sectors.

OUR PURPOSE AND VALUES

We are passionate about delivering exceptional customer service by developing innovative products underpinned by high quality manufacturing. Our CSR and our business principles, ethics and values drives in maintaining and enhancing our market reputation and extend our relationship of trust with our workforce, customers, suppliers, and the community.

OUR FACILITIES

Schematic Engineering Industries (India) operate their main manufacturing facility in Hyderabad, India in a 45000 Sqft facility and Schematic (UK) in Sheffield, South Yorkshire in a 5000 Sqft facility with state-of-the-art, world-class manufacturing facility from Design, Simulate and Manufacture to assembly and testing.



Schematic Engineering Industries is a leading design, engineering and manufacturing company specializing in

INNOVATIVE CONTAINMENT AND TRANSFER SOLUTIONS

for Pharmaceutical, Chemical and Food & Beverage industries

Schematic design all products in 3D Computer Aided Design (CAD) and Teams Centre to simulate and animate the exact operator environment to ensure customer satisfaction. We also conduct Design Acceptance Trials, Ergonomic Trials and also FAT to further enhance confidence and meet cGMP and cGAMP Standards



Continuous innovation is part of life in Schematic. Some of our patented products for food and pharma industries include Reactor Sampling System, Batter Drying, Flexijet Micronizer, Contakrimp etc.,



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CERTIFICATIONS & VALIDATIONS

- The only company in India to provide certified OEL / OEB from BOHS
- Complete documentation as per industry requirements including 21 CFR part 11
- CE Certification of the equipment and systems

01

CONTAINMENT SOLUTIONS

NEGATIVE PRESSURE ISOLATOR

Negative pressure isolator for handling of hazardous, cytotoxic, and high potent products.



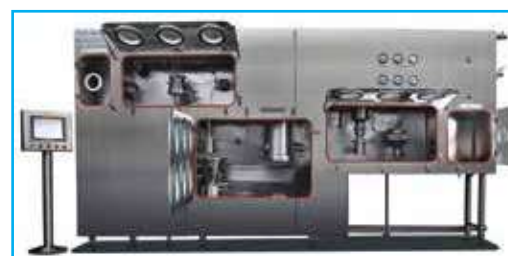
Negative containment system for granulation line – Manual powder feed – RMG – wet mill – FBD – PCS – dry mill – blender

- ✎ Negative pressure at 100 Pa,
- ✎ Compliant up to OEB 6
- ✎ Quick and easy change HEPA filters
- ✎ Oxygen monitoring / N2 inertization
- ✎ cGAMP – PLC/HMI controlled

Specialists in manufacturing bespoke, client specific under pressure containment systems to cGMP and cGAMP standards. Our negative (-ve) barrier isolators are essential where the process media is hazardous, dangerous or has an unacceptably high toxic level.

For API : Inbuilt process equipment

- ✎ Sampling & dispensing
- ✎ Reactor charging
- ✎ Filtrations (ANFD / Centrifuge)
- ✎ Milling & sieving



For Formulation : Inbuilt process equipment

- ✎ Dispensing and sieving
- ✎ Granulation
- ✎ Tablet press
- ✎ Capsule filling
- ✎ IPQC
- ✎ Tablet coating
- ✎ Blister packing

01

FLEXIJET MICRONIZER

- ① One pass particle reduction from 1500 Microns to less than 5 Microns
- ① Integrate with conventional micronizer for high efficiency



02

ONLINE REACTOR SAMPLING SYSTEM

- ① Closed sampling
- ① -40°C to 200°C temperature range
- ① Pressure range from 0 bar to 20 bar
- ① SS / Halar / PTFE coating



03

SMART GLOVE LEAK TESTER

- ① Sleek Design
- ① Windows and Android App design
- ① 21 CFR Part 11 compliance
- ① Upto 100 gloves testing at a time
- ① Customize to any glove port



02 CONTAINMENT SOLUTIONS

POSITIVE PRESSURE ISOLATOR

Positive pressure isolator ensures containment of product handling in a clean and/or sterile atmosphere



- Positive pressure range 40 – 50 Pa
- Integrated weighing & continuous liner port
- Integration with RTP for safe & rapid transfer



Our positive (+ve) barrier isolators are essential where possible external contamination from the clean-room environment or personnel can not be allowed to enter the process media.

- Sterility
- Lyophilizers
- Electronics manufacturing
- Compounding aseptic isolator
- Sterile testing, sterile transfer and sterile filtration
- Sterile loading and unloading of vials into lyophilizers (freeze dryers)
- Capping & sealing, isolator
- External decontamination

Key Applications

- Filling line isolator
- Freeze dryers
- Capping & sealing lyophilizers
- Sterile testing, sterile transfer and sterile filtration

01 CONTAKRIMP

- Tamper proof crimping
- One crimp for multiple liner sizes
- No fugitive emission
- OEB 6 compliant



02 RAPID TRANSFER PORT

- Secure material transfer
- Standard size of 100, 200, 300
- Resistant to multiple sterilization



03 FLEXIBLE ISOLATOR

- Light weight construction
- Suitable for fast product changes
- Cost effective solution over rigid Isolator
- 360°C operational view



03

POWDER TRANSFER SOLUTIONS

Turnkey powder handling system automation



Complete turnkey bespoke solutions in bulk powder material handling system.
Specialization in dense phase conveying & lean phase conveying for clean & safe handling.

- Receive raw material in bags / big bags / tankers
- Check screen material and convey to store powder in storage Silos
- Feed and pneumatically convey to weigh and batch powder recipe

- Customized design
- Integrate with process equipment
- Innovative solutions for major & minor ingredients handling
- Process optimization

KEY INDUSTRIES



Pharma



Chem



Poly



Food

01 PTS IN DENSE PHASE

- Low velocity conveying
- Dry & wet powder conveying
- Ideal for reactor charging



02 BIG BAG LOADING/ UNLOADING

- Discharge powder into blender / process equipment
- Collect finished powder in bags / hoppers / big bag / IBC
- Charging of finished product into packing machines



03 DCS INTEGRATED WITH PTS

- Dispensing of high potent drugs
- Compact and mobile system
- SS316 / Halar / PFA coated



04 SCHE BLENDER / DRYER

- Efficient & gentle mixing
- Clean discharge
- Wide operating range



Our Presence



Containment | Reliability | Flexibility

Schematic Engineering Industries Pvt. Ltd.

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