Hi-Tech Gateway to Excellence

Biotec Solutions Ltd.

SUPPLIER OF

Pharmaceutical & Food Machinery

Specialty Materials & Technical Services

Excellence 25 YEARS Diligence

Anniversary

Biotec Solutions Ltd.

Hi-Tech Gateway to Excellence

GROUP PRODUCTS & SERVICES

MACHINERY SOURCING / SUPPLY

- Manufacturing & Packaging Machinery
- Auxiliary Equipment & Accessories
- R&D / Pilot Plant Equipment
- Laboratory Testing Equipment
- Robotic Automation Solutions
- Equipment Long & Short-Term Leasing

ENGINEERING SUPPORT

- Machinery Installation & Commissioning
- After-Sale Engineering & Maintenance Services
- Building Project Management

SPECIALTY MATERIALS

- Hard Shell Gelatin & Vegetable Capsules
- Coloured, Flavoured & Printed Capsules
- Silica Gel Sachets & Canisters
- Tablet Coating Materials
- Vegetable Materials for Softgel

R&D / INNOVATIONS SERVICES

- Product, Process & Test Method Development
- R&D & Pilot Batch Manufacture
- Technology Transfer / Product Registration
- Facility Hire and Leasing
- GMP, Quality & Equipment Operation Training

STABILITY STUDY SERVICES

- Protocol Preparation & Implementation
- Sample Storage Management
- Samples Testing Facilitation
- Stability Study Advice & Recommendations

INSTRUMENT PERFORMANCE

- IANZ / ilac MRA Accredited Laboratory
- Calibration & Spatial mapping
- Qualifications & Validations

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MANUFACTURING MACHINERY

SOFTGEL MANUFACTURING SYSTEM

- Gelatin Softgel Capsulator with Tumbler Dryers
- High Speed in-line Continuous Drying System
- Patented Vegetable Softgel System – Olus®Caps
- Mobile One Pot Gelatin and Medicine Mixer
- Double Deck / CIP / Batch Tumbler Dryer
- Optical Sorter / UV Printer
- Jet Master & Gelatin Reclaim System








TABLET PRESSES / CAPSULE FILLERS / AUTOCOATERS

- Rotary Tablet Presses
- Auto Capsule Fillers for Powder / Pellets / Tablets
- Auto Tablet Coaters
- Powder Loaders & Capsule Polishers
- Capsule Weight Checkers







TABLET COMPRESSION TOOLING

- Special shaped / Multi Tip / Rotating Head / Coated
- Tooling Inspection / Polishing Kits
- Auto Punch Polisher / Tooling Storage Cabinets





DIGITAL METAL DETECTORS / CHECK WEIGHERS

- Metal Detectors (Pharma / Packaging Line / Gravity Feed)
- Check Weighers (Standard / Revolving)
- Combi (Metal Detectors / Checkweighers)
- Tablet De-dusters





PILL MAKING MACHINE & ROLL COMPACTOR

- Pill & Bead Maker
- Pill Drying & Polishing Machine
- Roll Compacter / Dry Granulator





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MANUFACTURING MACHINERY

SEMIAUTO CAPSULE FILLERS, BLENDERS & ALLIED GRANULATION MACHINERY

- Manual, Semiauto and R&D Capsule Filler with Sorters
- Blenders (V and Double Cone / Octagonal / Conta / Drum / Ribbon)
- Mixer Granulators, Pan Coaters, Sifters and Mills (R&D to Production Scales)
- Conventional Tablet Coating System








FLUIDISED BED PROCESSORS

- Fluidised Bed Dryers and Top Spray Granulators
- Particle Coater Granulators (Wurster Technology)
- Fluidised Bed Rota-granulator
- Extruder & Spheroniser
- Closed & Open Wet Granulation Suite







CREAM & PASTE MIXERS / HOMOGENISERS

- Vacuum Cream / Paste Mixers
- Top / Bottom Homogenisers & High Shear Mixers
- In-line Filters, Homogenisers & Colloid Mills
- Paddle / Dispersion Mixers & Tanks
- Laboratory Mixers & Lipstick Mixers







STERILE & ORAL LIQUID MIXERS / PROCESSING SYSTEMS

- Sterile Mixing Skids (Mobile / Integrated / Super)
- Liquid Orals and Topical Products Processors Intelligent Automation for GAMP
- Automated CIP & SIP Systems
- Glove Box, C-Rab, Isolator (Containment)






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PACKAGING MACHINERY

FULLY AUTOMATIC TABLET / CAPSULE / SOFTGEL COUNTING AND BOTTLING

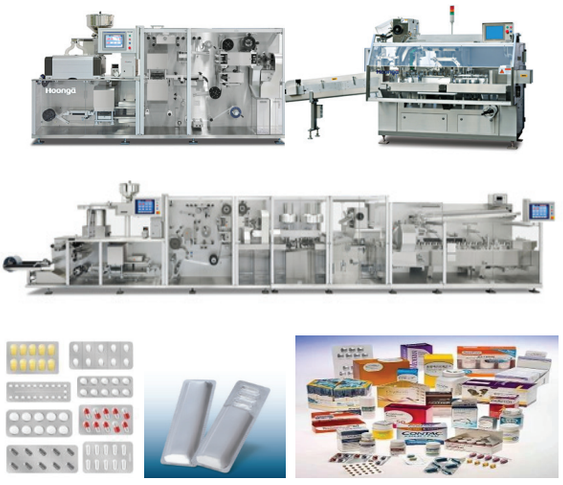


- Bottle Unscrambler, Silica Sachet / Canister Inserter
- Counters (Slow / Medium / High Speed) and Check-weighers
- Cotton Wool / PE Film Inserters
- Single Head / Rotary Cappers with Cap Re-torquers for
  - Caps (Press-on / Screw / Tamper Evident / CRC / ROPP)
  - Bottles (Round / Square / Rectangular)
- Induction Sealers, Count Validation Units
- Tablet Lifters / Cap Loadersders



FULLY AUTOMATIC BLISTER AND CARTON PACKERS

- Blister Packer with tablet / Capsule Lifters
  - Tablets / Capsules / Softgels / Vials / Ampoules / Syringes
  - PVC-ALU / ALU-ALU / Tropical / Aclar
- Tooth Brush Card and Blister Packers
- Carton Packers (Blisters / Bottles / Tubes)
- Stretch Banders & Shrink Wrappers / Bundlers
- Track & Trace System (Serialisation & Aggregation)



ROTARY POUCH PACKERS

- Single / Double Lanes Pouch Packer
- Powder / Granules / Liquid Paste
- Mask-packs / Side Gusset / Spout



POWDER / GRANULES FILLERS

- Linear Weighing Machine
- Semi-Automatic Auger Powder Filler (Volumetric / Weighmetric)
- Powder Filler and Capper Monoblock



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PACKAGING MACHINERY

SEMISOLID / LIQUID FILLERS

- Automatic Tube Filler
- Liquid Filler & Capper Monoblock
- Complete Liquid Bottling Line





FORM FILL & SEAL MACHINERY

- Granules & Powder Stick Packer
- Liquid Stick Packer and Cartoner Line
- Liquid 3-side Seals Packer
- Granules & Powder 4-side Packer and Cartoner Line
- Tablet & Capsule 4-side Seals Packer
- Liquid Pouch Shape 4-side Seals Packer
- Tablet & Capsule Pouch Shape 4-side Seals Packer
- Cosmetics Shape Pouch Shape Packer
- 3D Pouch Packer










END OF THE PACKAGING LINE MACHINERY

- Shrink-wrapper / Bundler
- Automatic Vertical Case Packer
- Horizontal Case Packer (Semi-Automatic & Automatic)
- Robotic Palletiser






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R&D EQUIPMENT & LABORATORY TESTING

R&D / PILOT SCALE EQUIPMENT

- Hardshell capsulation (Powder & Liquid)
- Tablet Compression
- Suppositories Filler and Sealer
- Liquid Syringe Filler
- Four Side Seal Sachet
- Blister Packer (PVC-ALU / ALU-ALU)



R&D TABLETOP EQUIPMENT

- One Head Bottle Liquid Filler
- One Head Bottle Capper
- Semi-Automatic Labeler
- Complete Bottling Line



POWDER / TABLET / CAPSULE / SOFTGEL / SUPPOSITORIES PHYSICAL TESTING EQUIPMENT

- Dissolution Testers (Manual / Automated Off-line & On-line)
- Disintegration / Friability / Hardness Testers
- Powder Testers (Tap Density / Flow Characteristics)
- Sieve Shakers / Blister & Sachet Leak Testers / Peristaltic Pumps



STABILITY CHAMBERS & INCUBATORS

- Humidity (Stability) Test Chambers (Stand-alone / Walk-in)
- Chambers (Cooling Chambers / Deep Freezers / Incubators / Photo-Stability)
- ICDAS / Web Based Software, Remote Monitoring, Mobile Alert System
- Calibration / Validation as per ICH Guidelines



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SPECIALTY MATERIALS

HARD-SHELL CAPSULES

FARMACAPSULAS®



CapsCanada® a Lyfe Group Co.

G-CAPS®	GELATIN
K-CAPS®	VEGETABLE
LQ-CAPS®	LIQUID FORMULATION
AR-CAPS®	ACID RESISTANCE
FM-CAPS®	CLINICAL TRIAL
Tio2 FREE	TITANIUM DIOXIDE FREE

FLAVOURED	FRUIT (9)
	PET FRIENDLY (3)
COLOURED	CLEAR / CLEAR
	SINGLE / DOUBLE
	NATURAL
PRINTED	AXIAL / RADIAL

AVAILABLE IN SIZES : 000, 00E, 00, 0E, 0, 1, 2, 3, 4, 5

CAPSULE STORAGE & DISTRIBUTION WAREHOUSES

AUCKLAND
2500 Boxes



CHRISTCHURCH
200 Boxes



SYDNEY
1200 Boxes





INSTACOAT FILM COATING SYSTEMS

- Normal Film / Moistshield Coating System
- Sustained Release / Enteric Coating System
- Instacoat Flavour / Instaglow / Instacoat Mask



MISCELLANEOUS SPECIALTY MATERIALS

- Silica Gel Desiccant Sachets (Loose / Reel)
- Silica Gel Canisters
- Gelatin Powder for Softgel
- Patented Vegetable (Olus®) Materials for Softgel













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CONTRACT STABILITY & EQUIPMENT CALIBRATION SERVICES

CONTRACT SHELF-LIFE STABILITY STORAGE FACILITIES & IANZ ACCREDITED CALIBRATION

CAPABILITIES

Intermediate and Long-Term (Accelerated)

25°C I 60%RH	30°C I 75% RH
30°C I 65%RH	37°C I 75% RH
40°C I 75%RH	Cooling 2 to 8°C

Specialized Climatic Conditions

Freeze-Thaw

Photostability

-20 to 60°C

25°C I 40%RH

40°C NMT 25%RH

Incubators: 5 to 60°C

Customer Specific Conditions

ilac-MRA

ACCREDITED CALIBRATION LABORATORY IANZ

№ 1388







CUSTOMERS

Human & Vet Pharmaceuticals

Nutraceutical Medicines

Dairy & Functional Foods

Cosmetics & Toiletries

Testing & R / D Laboratories

PRODUCTS

Tablets / Capsules / Softgels - Bottles & Blisters

Supplements - Sachets / Pouches / Cans / Tubs

Ingredients - Cans / Bags (25kgs) / Pails (225kg)

Creams / Ointments / Liquid / Gels – Bottles & Tubes

Reference Standards / New & Innovative Products

SALIENT FEATURES

- Biotec in-house over 15 years' experience in stability chambers for supply & service.
- High quality & accurate qualified & validated chambers meet ICH guidelines Q1A(R2).
- PLC controlled & 21 CFR Part 11 compliant web-based ICDAS 2.1 software.
- Complete secrecy & compilation of products and documentation and audit trail report.
- Standby utilities for minimum downtime & storage contingency management plan.
- Friendly & quick customer service : sample receival & timely dispatch.

LOCATIONS



Biotec Solutions Ltd. Hi-Tech Gateway to Excellence

STI SCI-TECH INNOVATIONS LTD
Concept To Market

A Prominent Feather in Biotec Services Cap

To further strengthen and widen Biotec group services capabilities, Biotec Group with over 30 years of experience in the pharmaceutical and nutraceutical industries in product development, and over 20 years in the related equipment service industries now introducing a purposely built R&D and Innovation Pilot Plant for our customer reach their marketing goals.

What We Offer

Research & Development Innovation

A. Product & Process Development


Powder


Tablet


Capsule


Controlled Release


Liquid


Cream


Softgel


Suppository

B. Packaging Development


Tub


Sachet

Stickpack


Pouch


Liquid Bottle


Pot


Tube


Suppository

C. Laboratory Testing Method Development

Pre-formulation Study Tests
Raw materials / In process / Bulk / Finished Packed Tests
New Product Stability / Shelf-life Tests

D. Technical Support to Market Development

Technology Transfer / Product Listing & Registration, Technical support to sales and marketing Department

Equipment & Facility Lease to Industry & University

Market Presentation Samples & Clinical Study Batches

Sci-Tech Academy – A Bridge Between Education – Knowledge – Employment

A learning platform for customer's staff training on various technical, engineering, production and quality aspects wherever applicable through webinars and certification courses. To provide university undergraduate and graduate students an in-plant industrial hands-on Pharma Industrial training (internship) to improve their knowledge for better career opportunities.



Biotec Solutions Ltd. Hi-Tech Gateway to Excellence

BIOTEC - A VERTICALLY INTEGRATED VALUE-ADDED SERVICE PROVIDER

CUSTOMER FRIENDLY AFTER SALE SUPPORT STRATEGIES

- Due diligent selection of right supplier with right specialised products
- No project selection unless in-house technical / engineering expertise available
- Customer friendly relaxed payment terms option
- Selection of staff with right attitude and aptitude
- Recruitment of technical sales & engineering experts from the major suppliers' company
- Multiple sites of operations to cater the customers more closely and efficiently
- Project facilitation and follow up operation in supplier's country
- Quick and efficient engineering support network
- Over 80% of Biotec Staff are pharmacy and / or engineering background and / or with pharmaceutical / nutraceutical industrial experience

OUR ACHIEVEMENTS & MILESTONES

- Over 25 years in the Equipment related service industries
- Over 300 loyal customers in Aus, NZ & Fiji
- Over 500 capex projects including 1500 individual machinery sale
- Market Leader with more than 50% market share for Tablet / Capsule bottling Line and Soft-gel manufacturing equipment in Australia and New Zealand
- More than 6.0 billion hardshell capsules sold in Australia and New Zealand
- Sales Offices & Operations in 6 locations in Australia and New Zealand
- Machinery Sourcing and Projects facilitation offices in Korea and India
- A Complete **ONE STOP SHOP** in Pharmaceutical Technology
- Hard Shell Capsule / Tablet / Softgel / Powders / Liquids Manufacturing & packing
- Contract Stability Samples Storage Facilities, First of its Kind and one of the largest in Australia & New Zealand (over 40 Stability Chambers)
- Sci-Tech Innovations Ltd, a state of art NPD & Innovation pilot plant for Nutraceutical / Pharmaceutical Products
- A unique Biotec Equipment Display Suite and Equipment Training Centre

BACKGROUND

Biotec Solutions was formed to provide cost effective quality machinery / specialty materials / genuine technical services which deliver true advantages to all our customers in Australia, New Zealand and Fiji.

MISSION

HI-TECH GATEWAY TO EXCELLENCE

VISION

To be value added service provider and an efficient leader in providing complete technical / engineering services to Pharmaceutical and Functional Food Industries in Australasia.

G L O B A L P R E S E N C E

Sales and Support Operations

Auckland **Christchurch** **Sydney** **Brisbane** **Melbourne**

Sourcing Offices

Bucheon **Mumbai**



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