

## Innovative Primary Packaging Solutions & Advanced Drug Delivery Systems



- Multi-Location Global Plants are cGMP Complied, with Advanced All-Electric Injection, Injection Blow-molding, Vision Inspection equipment and more in Validated Clean Room facility.
- Products comply with USP, EP, BP, JP & other regulatory standards
- Access to Large Device Design Database
- High level documentation support for MDD, CE marking, Type-III DMF, DMR, DHF, DHR, 21 CFR 820 and the 510 (k) requirements.
- IPR Protection Guaranteed - holding multiple patents
- Dedicated Innovative Product Development team
- In-house Molding Making and Micro Molding facility for quicker Development and sample generation





Doctor Pack specializes in Design, Development & Manufacture of innovative primary packaging, medical devices & advanced drug delivery systems. Committed to meeting the changing needs of market leading companies in the Pharmaceutical, Healthcare, life science and diagnostics sectors across the globe.

As your single source development and supply partner, we focus on providing exceptional customer support and offer a wide range of customized services to meet your specific needs. Our global supply chain capabilities ensure that you receive the right product at the right time, while meeting high quality standards.

### Manufacturing Facility

Doctor Pack prides itself on delivering excellence in manufacturing. Our state-of-art facility, is equipped with advanced machines such as All-Electric Injection Blow Molding, Injection Molding, Micro Molding, Automated Assembly System, Automated Vision Inspection System, Printing Machines and Laser Marking set in a cGMP complied validated clean room.

### Product Highlights

**Mission:**

*To strengthen and grow our leadership position in Pharma and Health Care Packaging by providing prompt, innovative, cost effective and aesthetically superior packaging, drug delivery system, medical devices, developed and manufactured in compliance with cGMP standards.*

*We exist to create benefit and value to our internal & external customers.*

*To continue to be the pioneer in introducing innovative products, adopting the latest technology, materials, cGMP and the global standards.*

**Vision:**

*In next 5 years we want to be one of the top 10 global Pharma Packaging and Drug Delivery System company with plants around the Globe.*

*We want to be the Globally Preferred "Perfect Packaging Partner" who provides innovative, cost effective packaging solutions.*

**Ophthalmic Delivery System:**

In the last two decades, many new drugs have been formulated to address a great variety of eye diseases. Yet, without good drug delivery systems, these drugs are less effective, possibly even ineffective or could cause serious side effects. Doctor Pack's innovative soft squeeze design includes:

- **Preservative Free System (OSD):**  
Screw-On & Snap-On - 5ml, 7.5ml, 10ml & 15ml
- **S Design:** 3ml, 5ml, 10ml, 15ml & 30ml
- **AM Design:** 4ml, 5ml, 8ml, 10ml, 15ml & 30ml
- **N Design:** 3ml, 5ml, 10ml, 15ml, 20ml, 30ml, 50ml & 60ml
- **Ophthalmic Spray Pump:**  
30-60µl dose delivery
- 30, 40, 50 & 60µl Flow-Control Nozzle
- Closures: **CRC**, TE & NonTE

**Nasal Delivery System:**

Doctor Pack developed an Innovative Nasal Delivery system designed for enhanced drug absorption, soft actuation and consistent spray pattern delivery of intra-nasal powder/liquid drug formulations. Doctor Pack provides support on spray pattern analysis.

- **Nasal Spray Pump:**  
50 - 140µl dose delivery
- **Screw-on, Snap-on, Crimp-on Design:** 10ml, 15ml, 20ml & 30ml
- **Nasal Squeeze Spray Pack:** 20ml & 30ml

**Parenteral Delivery Devices:**

Parenteral Drugs are administered directly into the IV, IM & Subcutaneous. Doctor Pack's Parenteral Devices complies to ISO 11608-1:2000 and are user friendly, ideal for self-injection with anti-stick protection system. Our Parenteral Packaging are of high barrier, free from microbial contamination & have high purity.

- **COC/ COP/PP Vial:** 5ml, 10ml & 15ml
- **COC/ COP/PP PFS:** 0.5ml, 1ml, 2.25ml, 5ml & 10ml
- **Auto-Injector** - 1ml long syringe
- **Needle Safe Device**
- **Implant Depot Device**
- **Rec-Dial Syringe**



Ophthalmic - with Flow Control Nozzle



NG Spray Devices



Nasal Delivery - Pumps, Squeeze Spray System



Parenteral Delivery Devices



Special Devices

## Quality & Regulatory

Quality to us means more than just fulfilling minimum requirements as we build quality right from the design stage to the development and manufacturing process. Our commitment to the quality is evident by our credentials such as ISO 15378 for Primary Packaging, ISO 13485 for Medical Devices, ISO 14001 for EMS, ISO 45001 for Occupational Health & Safety (OH&S), CE Marking & Type III DMF.

Our labs are well equipped for product & process validation. Our processes are designed for traceability and controls. Doctor Pack products comply with USP, EP, JP & other regulatory standards. We have a good exposure to the preparation and submission of apt documents for MDD, CE marking, Type-III DMF, DMR, DHF, DHR, 21 CFR 820 and the 510 (k) requirements.

Doctor Pack provides IPR protection and Patent support to each customer. We are well accustomed to strict demands on quality, timing and production. This gives Doctor Pack a competitive edge as a world-class development and supply partner for your pharma packaging & device needs.

### Inhalation Delivery System:

Doctor Pack inhalation device produce an aerosol of medication with a significant dose of particles in the so-called respirable range that enters the lower airways. Our devices also minimize local (oropharyngeal) and systemic side-effects of the drug and are simple to use, portable, durable, unobtrusive and cost effective. Our MDI is compatible with HFA Propellant.

- **PMDI Valve:** 50-75 µl
- **MDI Actuators**-Breath Actuated with Counter (Customised)
- **DPI**-Unit Dose Capsule inhaler & Multi Dose inhaler (Customised)

### Oral Delivery System:

Oral delivery systems can take a number of forms including tablets, capsules, time release technology, emulsions and suspensions. Oral delivery systems are specifically designed to perform functions like safety, accurate dosage and delivery of the drug to its site of administration in the body.

- **Measuring Cup:** 5-15 ml
- **Dosing Syringe:** 5 ml, 7.5 ml, 10 ml & 12.5 ml
- **CRC/Screw Cap:** 24, 28, 33, 38, 45 & 53 mm
- **Tablet Container:** 40cc-500cc
- **Tablet Pen Dispenser** (Customised)
- **Oral/Throat Spray Pump:** 50 - 140µl dose delivery

### Diabetes Delivery Devices:

Our Insulin Pen & Lancing Device are user friendly, with tactile, visual & audible feature. Compatible with standard pen-needles & lancets. Doctor Pack provides both reusable and disposable pen with 0.5 & 1 IU increments. The design ensures optimal actuation force, accurate dosage with ease of dose setting, dose correction, dose limit stop and large legible dose marking. Complies to ISO 11608-1:2000.

- **Insulin Pen** - Disposable & Re-usable (Customised)
- **Lancing Device** (Customised)



Incoming Testing



Product Testing



Metrology Lab



Precise Thickness Measurement



Inhalation Delivery Devices - PMDI, DPI



Oral Delivery - CRC, Dosing Syringe, Container



True Safe - Needle Safe Device



Preservative-free System



Tablet Dispenser    Auto Injector    Insulin Pen    Lancing Device

### NG Preservative-free System



#### NG Preservative-free System

Research states that long-term use of eye drops containing preservative can lead to irritation, discomfort, ocular hyperaemia, dotted keratitis, or toxic keratopathy. Our fully Validated NG Preservative Free Ophthalmic delivery system is an ideal solution.

● **Screw-On/Snap-On:** 5ml, 10 ml with 30, 40 & 50ml Dose Delivery (Customisable)

### Unit/Bi-Dose Nasal Spray Device



#### Unit/Bi-Dose Nasal Spray Devices:

User friendly, primeless, any position, one hand activation with rapid onset action makes it preferred choice for life saving emergencies and pain management. In vitro Spray Characteristics, Safety and Efficacy complies to global standard.

- **Unit Dose** - 100mcl /dose
- **Bi-Dose** - 2 Dose 100mcl /dose

### Dual Chamber Spray System



#### Dual Chamber Spray Device:

Our Patented Dual Chamber Spray Device stores separately two incompatible formulations. On device actuation a precise amount of each formulation is homogenously mixed only at the nozzle tip with effective spray delivery. Our Device enabled our client for a quick launch of Nitric oxide medication and saved many lives during Viral Pandemic.

- 10-30ml Fill Volume with 50mcl, 100mcl & 150mcl Dose Delivery

## Design & Development



Design & Development Team



In-house Mould Making Setup



Micro Moulding Production Line



Device Validation Lab

**In-house Design & development team:** Our Development Process starts with understanding of your specific requirements. Our dedicated team of product designers and technical experts work on giving you innovative options with scientific approach. 3 D modeling, 3 D printing, SLA models submission of the development product eliminates costly mistakes.

**In-house Mold Making setup:** Product development is further facilitated and expedited by our Micro Molding capabilities. Our in-house mold making facility is equipped to work on projects with high degree of complexity and reducing time to develop and market for our customers.

**Product Testing and Validation:** Product passes through a comprehensive testing and validation process during the development stage; this assures the product performance throughout the product life cycle.

### Global Customer Base



SCAN ME



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