Drug Delivery & Packaging

Pharmapack

INNOVATION • NETWORKING • EDUCATION

INNOVATION BOOKLET
2017-2019

INNOVATION FEATURES

PATIENT /
USER SAFETY

EASE
OF USE

PATIENT
ADHERENCE

ECO-
FRIENDLY

COST
EFFECTIVE

INNOVATION BOOKLET
2017-2019

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INNOVATION BOOKLET

2019

Aptar Pharma QuickStart™ Injectables

Company name: Aptar Pharma

Product name:
Aptar Pharma QuickStart™ Injectables

Product type: Primary Packaging

Development phase: Commercialization

Honour: Pharmapack Awards 2019 winner

Target markets: North America, Europe. Expanding to Rest of World in near future.

Target clients: Biopharmaceutical companies

Contact person: Adam Shain, *Director, Global Business Development – Injectables*

Email: adam.shain@aptar.com

Telephone: +1 8456393700

Country: United States

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

Aptar Pharma QuickStart™ is an innovative way to deliver injectable development solutions to pharmaceutical customers, demonstrably accelerating bench-to-market time.

Designed specifically for R&D labs, Biotechs, Start-ups and Universities, QuickStart™ provides everything needed for the small volume filling of high value formulations. QuickStart™ combines best-in-class components from Aptar Pharma, Schott and EMA, enabling innovators to benefit from multiple configurations shipped from a single source, and available to order through a convenient e-commerce portal.

These components satisfy all regulatory requirements, allowing developers to access commercial scale quality at development stage costs, meaning performance at project outset can be maintained at scale up.

APPLICATION AREAS

Combining the certainty of science with the power of partnership, Aptar Pharma QuickStart™ is an innovative way to deliver injectable development solutions to pharmaceutical customers, demonstrably accelerating bench-to-market time.

KEY FEATURES (USP)

- An off-the-shelf offering available to customers in less than two weeks, from order to door.
- Everything you need for small volume filling of high value formulations.
- Ready-to-Use sterilized products to provide customers with better quality, real flexibility, and convenience.
- The Aptar Pharma Injectables solution seeks to provide universities and start-ups with best-in-class products assembled to increase speed, reliability, convenience and performance.
- Aptar Pharma has partnered with leading providers SCHOTT and EMA Pharmaceuticals to guarantee optimal compatibility, reliability and seal.

Website: https://pharma.aptar.com/en-us/dispensing-solutions/aptar-pharma-quickstarttm-injectables.html

August Faller ZOOM Box

Company name: August Faller GmbH & Co. KG
Product name: August Faller ZOOM Box
Product type: Secondary Packaging
Development phase: Prototype
Honour: Pharmapack Innovation Gallery 2019
Target markets: Europe
Target clients: Pharmaceutical companies

Contact person:
Charis Bayer, *Expert Marketing Communication*
Email: charis.bayer@august-faller.com
Telephone: +49 7681405264
Country: Germany

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

The ZOOM BOX combines all capabilities we could offer as a partner for Pharma secondary packaging. The Box is a special folding carton construction combined with labels and leaflets showing a wide variety of ways to accommodate more space for information such as product features, detailed clinical studies, promotions or descriptions in multiple languages. In addition, the box showcases options to comply with the Falsified Medicine Directive 2011/62/EU.

APPLICATION AREAS

Folding carton with additional uses.

In order to expand the space available for communication on the conventional folding carton, we create individual solutions with integrated or combined information carriers for our customers. Folding cartons can be enhanced by a variety of means – by additional flaps, e.g. with a longer rear side, by an internal or external communication space or by integrated products, such as the leaflet or multipage label.

KEY FEATURES (USP)

With our new ZOOM BOX we supply more detailed information on the individual components and the possibilities for expanded communication spaces on pharmaceutical packaging. Furthermore, the box shows solutions to the most important challenges currently facing the pharmaceutical industry. Whether it be increasing efficiency, offering packaging solutions with a larger range of functionality or simply ensuring greater security.

Website: https://www.august-faller.com/en/solutions/efficiency/one-stop-shop/one-stop-shop.html

Product video demo: https://www.youtube.com/watch?v=b1tP_NHhcek&feature=youtu.be

BABYSECURE by Ercé Médical®

Company name: Ercé Médical
Product name: BABYSECURE by ercé médical®
Product type: Drug delivery Device
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2019
Target markets: Global
Target clients: Pharmaceutical companies

Contact person:
Thibaut Martinez, *Sales manager*
Email: t.martinez@erce-plasturgie.com
Telephone: +33 474811962
Country: France

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

Mindful of having greater control over securing the administration of medicines, ercé médical creates an innovative range of dosing pipettes, BABYSECURE by ercé médical®.

The pipette is equipped with a sliding ring placed on the body of the pipette which allows to pre-set the dose very precisely. Once pre-set, the user no longer has to worry about the device settings. The ring is a safeguard to give the right dose under all circumstances.

The purpose of this system is to limit the risk of dosing errors, ensure the accuracy of the dose administered, with safe and easy use of the pipette.

APPLICATION AREAS

The dosing pipette BABYSECURE by ercé médical® is an intuitive medical delivery system. Its primary use is for the dosage and administration of liquid drugs and dietary supplements. The graduation of the plug is customizable for every need.

KEY FEATURES (USP)

BABYSECURE by ercé médical®:
- Ensures the reliability of the dosage
- Secure each dose given to the patient
- Allows for reproducibility thanks to easy, secured use
- Is produced in accordance with GMP (Good Manufacturing Produce) standards
- The dosing pipette is fully food certified.

Website: http://www.erce-medical.com/produit/babysecure/

Product video demo: https://vimeo.com/258607029

BD Hylok™ Glass Pre-fillable Syringe for Hyaluronic Acid

Company name:
BD Medical – Pharmaceutical Systems

Product name: BD Hylok™ Glass Pre-fillable Syringe for Hyaluronic Acid

Product type: Drug delivery Device

Development phase: Commercialization

Honour: Pharmapack Innovation Gallery 2019

Target markets: Global

Target clients: Pharmaceutical companies

Contact person:
Sagar Bejalwar, *Global PFS Marketing Manager*

Email: sagar.bejalwar@bd.com

Telephone: +33 476043853

Country: France

FACT SHEET

PRODUCT DESCRIPTION

BD Hylok™ Glass pre-fillable Syringe* is a new luer syringe for the administration of viscous and IV drugs. It offers customers the advantages of glass containers (e. g. medication stability) with a robust luer connection. The first targeted application for BD Hylok™ is Hyaluronic Acid and more specifically, dermal fillers.

BD Hylok™ offers an ergonomic and compliant design. The syringe is inclusive of human factors and the latest regulatory requirements as part of the connection design.

APPLICATION AREAS

BD Hylok™ is an innovative Glass Pre-fillable Syringe designed for the administration of Hyaluronic Acid. In a recent international survey*, 45% of dermatologists identify needle disconnection, LLA rotation and leakage as issues when injecting Hyaluronic Acid. 72% of decision makers express a preference for glass over plastic syringes, and favor material inertness and resistance to steam sterilization. BD Hylok™ is a robust drug delivery system that demonstrates excellent performance after steam sterilization, and offers optimized user experience:

- Reduced risk of LLA disconnection/rotation (new bonding technology)
- Safe and robust needle connection (new LLA thread design)
- Intuitive screw-on tip cap preferred by users over a standard clip-on tip cap*

* Data on file

KEY FEATURES (USP)

- Screw-on tip cap - It features an easy-to-use and intuitive tip cap with proven user preference
- Robust connection - It forms a robust connection with leading needleless access devices
- Luer-lok enlarged channel (LLEC) - The LLEC reduces the risk of clogging in the syringe
- 100% glass barrel - The all-glass barrel limits risks and costs associated with potential container changes
- New luer-lock adaptor (LLA) thread design - The new LLA design reduces risk of spontaneous connector disconnection
- New bonding technology - The new technology reduces risk of LLA disconnection or rotation

Website: drugdeliverysystems.bd.com

BD Intevia™ Disposable Autoinjector

FACT SHEET

Company name:
BD Medical - Pharmaceutical Systems
Product name:
BD Intevia™ Disposable Autoinjector
Product type: Drug delivery Device
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2019
Target markets: Global
Target clients: Pharmaceutical companies

Contact person:
Karima Yadi, *Global SAIS Marketing Manager*
Email: karima.yadi@bd.com
Telephone: +33 772183315
Country: France

PRODUCT DESCRIPTION

The BD Intevia™ is a two-step, push-on-skin 1 mL autoinjector designed to deliver a broad range of viscosities for chronic disease therapy, while offering a unique patient-centered design:

• Delivers viscosities up to 35 cP
• Provides security of use with its hidden, protected needle
• Provides the convenience and confidence of a patient friendly design
• Enhances the patient experience with feedback indicators
• Control point feature allows probing without triggering

BD Intevia™ Disposable Autoinjector is reliably integrated with prefillable syringes such as BD Neopak™, strongly supported by BD's clinical injection and drug delivery expertise, and favorably optimizes patient self-injections with highly viscous drugs and therapies.

APPLICATION AREAS

BD Intevia™ Disposable Autoinjector is designed especially for the delivery of highly viscous drugs. It enhances patient experience with feedback indicators in a unique design:

• Simplifies delivery with two-step, push-on-skin activation

• Provides the convenience and confidence of a slim, patient-friendly design.

BD Intevia™ supports the biotech industry's exploration beyond traditional volumes and viscosities.

KEY FEATURES (USP)

• Simplifies 1mL delivery with two-step, push-on-skin activation
• Improves safety by protecting the needle after injection
• Promotes patient ease of use when self-injecting, supported by BD's injection technique expertise
• Provides the convenience and confidence of a slim, patient-friendly design
• Intuitively communicates dose delivery visually and audibly
• Reliable integration with BD Neopak™ and BD Hypak™ for Biotech Glass Pre-fillable Syringes, and BD end-to-end services to assist with the development and manufacture of the combination product

Website: drugdeliverysystems.bd.com

Product video demo: https://drugdeliverysystems.bd.com/video-gallery?video=5731778469001

Cartridge-based wearable device
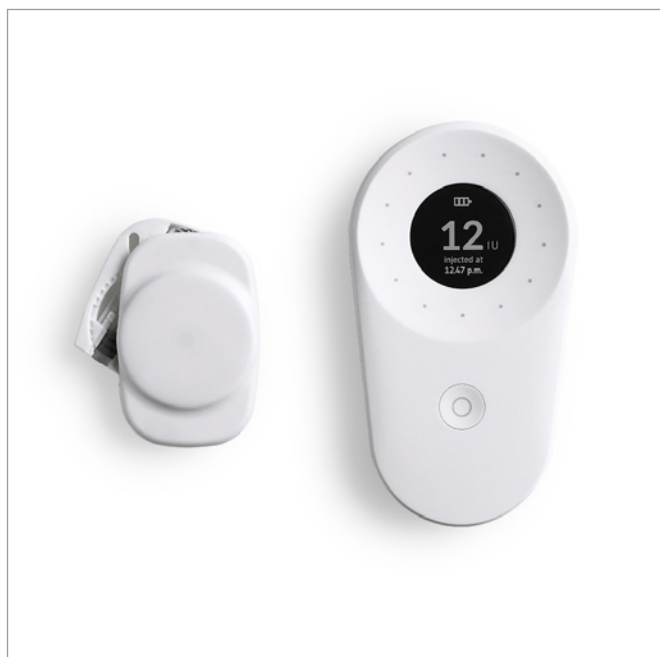
Company name: Stevanato Group
Product name: Cartridge-based wearable device
Product type: Drug delivery Device
Development phase: Prototype
Honour: Pharmapack Awards 2019 winner
Target markets:
Europe, North America, Japan, Korea
Target clients: Pharmaceutical companies

Contact person:
Paolo Golfetto, *Drug Delivery Systems Business Development Director*
Email: paolo.golfetto@stevanatogroup.com
Telephone: +39 0499318058
Country: Italy

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

Our cartridge-based wearable device is an easy, discreet, effortless device for adjustable regimens. It is a better alternative to traditional pen-injectors. Thanks to its innovative yet simple technology it ensures a painless, intuitive and quick administration of the drug. It has been designed to be a discreet, comfortable and usable device that makes the patient's life easier even in a dynamic context. Traveling, doing sports, or just enjoying the moment has never been so simple.

APPLICATION AREAS

Cartridge-based wearable device is a better alternative to traditional pen-injectors.

Thanks to its innovative yet simple technology it ensures a painless, intuitive and discreet administration of the drug, increasing patient adherence thanks to a user-friendly interface.

Our wearable device can be adapted to give subcutaneous or intramuscular injections and it is easily applicable to different therapeutic areas such as:

- Diabetes treatment
- Hormone therapies
- Pain relief treatment
- Alzheimer's disease treatment

KEY FEATURES (USP)

The device consists of the following: A disposable POD; a handheld device that works as a user interface and controller and a glass cartridge containing the liquid drug. By placing the handheld device in proximity over the pod, even through clothing, the POD unlocks and receives energy to administrate the right dose of medicament.

The Disposable POD:
- Intuitive design for easy loading of the glass cartridge by the patient
- Adhesive patch designed to minimize skin irritation while securing firm adhesion up to three days
- Flexible soft cannula for maximum patient comfort, automatically inserted to reduce injection pain

The handheld device:
- Accurate dose selection (5 μl steps)
- Dose verification during the administration
- Various alerts to prevent multiple doses, partial dosage, etc.
- Indication of previous dose volume and time
- Log file, connectivity

Website: https://www.stevanatogroup.com/drug-delivery-systems/

Clareo

Company name: SGD Pharma
Product name: Clareo
Product type: Primary Packaging
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2019
Target markets:
Europe, Asia-Pacific, India, MEA, LATAM
Target clients: Pharmaceutical companies

Contact person:
Jean Pascal Marquie, *Operational Marketing & Communication Manager*
Email: jean-pascal.marquie@sgdgroup.com
Telephone: +33 140903662
Country: France

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

Clareo vials from SGD Pharma offer a combination of homogeneous wall thickness and superior cosmetic quality, which for molded glass Type II is unique in the market. The new range offers technical characteristics similar to the vials in the existing range and can replace them without any regulatory change. Once again, SGD Pharma demonstrates with Clareo its expertise in the manufacturing process of molded glass.

APPLICATION AREAS

The mechanical resistance to shock of the Clareo vials has been considerably improved by obtaining a more homogeneous distribution of the glass (+15pts compared to the standard process). This increased regularity allows a significant reduction of the breakage rate (up to 10x lower).

Clareo vials have more flat and uniform bottoms, which eases the thermal transfer during the freeze-drying processes.

Clareo vials also offer a superior cosmetic quality, leading to an improved inspection ability before and after filling. Pharmaceutical and biotechnology companies benefit from this advantage, allowing a reduction of their Total Cost of Ownership (TCO), mostly for high value-added products.

Furthermore, customers looking for a more economical alternative to converting Type I glass can find a more affordable solution in Clareo. SGD Pharma can share a list of molecules, for which compatibility with glass Type II has been approved by the authorities.

KEY FEATURES (USP)

- CONTAINER CLOSURE INTEGRITY IMPROVED: Clareo minimizes stopper pop-up
- SUPERIOR COSMETIC QUALITY: Clareo allows pharmaceuticals companies to perform better inspection
- BREAKAGE RATE REDUCTION: Clareo significantly increases the mechanical resistance, offers better internal pressure resistance and improves vertical resistance by 10%
- BEST QUALITY ON THE MARKET: SGD Pharma is the only supplier worldwide offering these premium injection vials in Type II
- SMOOTHER 20 MM NECK FINISH
- HOMOGEOUS GLASS WALL THICKNESS
- BOTTOM REGULARITY

Website: https://www.sgd-pharma.com/clareo

Product video demo: https://youtu.be/oOI4r9nszfg

CONSTANTIA Flexible Blister

Company name: Constantia Flexibles
Product name: CONSTANTIA Flexible Blister
Product type: Primary Packaging
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2019
Target markets: Global
Target clients: Pharmaceutical companies

Contact person:
Dani Manfreda, *Marketing Specialist Pharma*
Email: dani.manfreda@cflex.com
Telephone: +43 1 8885640
Country: Austria

FACT SHEET

PRODUCT DESCRIPTION

An innovative push-through strip pack for oral dosage pharmaceuticals, dietary supplements and personal care pills or tablets. It is fully customizable in terms of technical and regulatory requirements according to the customer needs, always protecting the barrier integrity through totally flexible film solution on both sides.

APPLICATION AREAS

CONSTANTIA Flexible Blister combines the best of two worlds: the easy push through of a blister with the flexible and pleasant haptic of a strip pack. It can be printed using any available printing technology from rotogravure, to flexo and digital. CONSTANTIA Flexible Blister is designed in order to have the product leaflet included on primary packaging in a way that consumers have the essential information at hand.

The push through mechanism only works from back to front, makes sure that the product leaflet is not damaged after taking some pills. In addition, it enables easy dividing and separation of individual cavities of groups of tablets, making it easy to handle. We can even print QR codes on the cavities and create a digital link between packaging and patient.

The combination of CONSTANTIA Digital and CONSTANTIA Interactive enables personalized medicine and improves patient adherence, convenience and safety.

KEY FEATURES (USP)

With CONSTANTIA Flexible Blister, pharmaceutical companies finally have a chance to opt-in for the top consumer friendly flexible packaging while at the same time using drop-in technology for existing packaging lines. CONSTANTIA Flexible Blister:

- supports individualized information per cavity
- supports CONSTANTIA Interactive to get more information on medicine online wherever / whenever needed
- comes with the product leaflet on the rear side
- is travel friendly, it can be rolled-up and put in a pocket

All the above makes CONSTANTIA Flexible Blister the ideal flexible push-through solution for solid oral dose.

Website: https://www.cflex.com/constantia-flexible-blister/

e-Novelia®

Company name: NEMERA
Product name: e-Novelia®
Product type: Drug delivery Device
Development phase: Prototype
Honour: Pharmapack Innovation Gallery 2019
Target markets: Global
Target clients: Pharmaceutical companies

Contact person:
Fanny Sellier, *Global Category Manager – Ophthalmics*
Email: information@nemera.net
Telephone: +33 474940654
Country: France

Business model:
Direct sales, Contract Manufacturing

FACT SHEET

PRODUCT DESCRIPTION

Nemera is introducing e-Novelia®, the completely new and innovative electronic add-on for ophthalmic droppers, conceived to improve patient experience and adherence, by offering increased comfort and usability to their treatments.

Nemera combined the innovative multidose eye dropper for preservative-free formulations Novelia® with electronic features, and came up with a smart add-on for eye droppers, e-Novelia®.

e-Novelia® can be linked to a smartphone application, providing users with enhanced IFU, usage feedback and compliance information.

This new technology could be adapted to benefit the entire industry: healthcare professionals, researchers, pharma companies and patients.

APPLICATION AREAS

e-Novelia®, Nemera's smart ophthalmic add-on, has been designed to make patients' life easier, by offering increased comfort and optimized adherence to their treatments.

It works in combination with Nemera's preservative-free multidose eye dropper Novelia®. It mainly targets glaucoma treatments, but can also be used for dry eye syndrome and all other systemic therapies through eye droppers, with preservative-free formulations.

e-Novelia® has been designed to improve patients' interaction with their drug

KEY FEATURES (USP)

Novelia® incorporates cutting-edge technology and unique features; Nemera has designed and developed the device to add new functions which couldn't be provided by standard mechanical devices.

Nemera's smart eyedropper showcases several electronic features, which could be transferred across multiple device platforms: Compliance rate; Treatment history; Remaining volume indication; Optimal position for a drop into eye (via traffic lights); Actuation ease of use; User instructions; Smartphone application and notifications; Shaking formulation indication; RFID tag on eyedropper bottle to collect data

Website: https://www.nemera.net/smart-ophthalmic-add-on-e-novelia/

Product video demo: https://www.youtube.com/watch?v=02dtcRrEDzM&t=56s

ERON

Company name: Bisioprogetti
Product name: ERON
Product type: Primary Packaging
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2019
Target markets: Global
Target clients: Pharmaceutical companies

Contact person:
Luca Valeri, *Sales & Marketing Manager*
Email: lucavaleri@bisioprogetti.it
Telephone: +39 0131244411
Country: Italy

Business model:
Direct sales

FACT SHEET

PRODUCT DESCRIPTION

ERON is the result of the combination of three components produced in a Clean Room injection moulding environment and ISO stoppering cap, thanks to the long standing experience of Bisioprogetti in the field of plastic primary packaging design and related large-scale industrialization.

These qualities combined with the know-how of a mould maker allowed the realization of this innovative closure with unique features, making it a valid alternative to the solutions available on the market today.

APPLICATION AREAS

Innovative closing system for injectable

KEY FEATURES (USP)

Eron is a universal solution suitable for LYO and SERUM systems due to its ISO cap compatibility. It is Aluminum particle free and is a one stage closing that allows no productivity loss for Lyo

Website: www.bisioprogetti.it

InsulCheck Connect

Company name:
SHL Group and Innovation Zed
Product name: InsulCheck Connect
Product type: Drug delivery Device
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2019
Target markets: North America, Europe, Asia Pacific
Target clients: Pharmaceutical companies

Contact person:
Dean Minnock, *Director of Business Development*
Email: deanm@innovationzed.com
Telephone: +35 3831508702
Country: Ireland

Business model:
Direct sales, out-licencing

FACT SHEET

PRODUCT DESCRIPTION

MAKING PENS SMARTER: InsulCheck Connect is a smart, connected add-on for pen injectors. It features a large OLED display which shows the time elapsed since the last injection, and it automatically transfers data of injection time and date to a mobile application via Bluetooth. It is small, lightweight and easy to use, and its custom sleeve allows it to be easily clipped on to a variety of insulin injection pens on the market, or other injection pens under development.

READY, SET, CONNECT! InsulCheck Connect has an open API for easy integration with 3rd party applications. Eliminating the need for users to manually log in to their injection data, it helps patients stay on top of their injection routines. Integrated into the app's management algorithms, the data opens additional opportunities for patient engagement and enhanced user experience.

APPLICATION AREAS

Injection data collected by InsulCheck Connect may help enhance user experience and engagement when integrated with third-party Diabetes Management Applications (Apps). This can help insulin pen users bring focus to their injection compliance for improved outcomes.

EVIDENCE OF INJECTION COMPLETION

When user injects, InsulCheck Connect can send the time of injection to the App, whose bolus calculator or injection schedule can help suggest dose units. It can also help track dose usage and insulin temperature, allowing the App to provide warnings when the pen is nearly empty or if the insulin has been exposed to extreme temperatures.

KEY FEATURES (USP)

CONNECTIVITY ON THE GO

InsulCheck Connect enables the automatic capturing and transferring of injection data to 3rd party applications. It stores up to one month of injection records, offering peace of mind even when data cannot immediately be sent.

CUSTOMIZED COMPATIBILITY

Currently compatible with a variety of insulin injection pens on the market, InsulCheck Connect allows patients to enjoy the benefits of connectivity with their existing injection devices without changing their injection routines. A custom sleeve also enables the device to support other pen injectors already on the market or under development.

Website: https://www.insulcheck.com/

Intuity® Gel

Company name: EVEON
Product name: Intuity® Gel
Product type: Drug delivery Device
Development phase: Proof of concept
Honour: Pharmapack Innovation Gallery 2019
Target markets: North America, Europe
Target clients: Pharmaceutical companies

Contact person:
Charlotte Reverand, *Communications Officer*
Email: cre@eveon.eu
Telephone: +33 476448417
Country: France

Business model:
Contract Manufacturing

FACT SHEET

PRODUCT DESCRIPTION

Intuity® Gel is the first assisted and wireless injector that allows for the easy and precise injection of very viscous liquids and thick gels through thin needles, keeping manual sensitivity for the user. This aided injection device is adapted for very accurate injections and dedicated to a large range of applications such as aesthetic, dermatology, ophthalmology, orthopedics and dentistry.

Thanks to proprietary fluidic and electronic features, Intuity® Gel provides a safe and efficient solution for precise injections.

APPLICATION AREAS

This aided injection device is adapted to a large range of applications such as aesthetic, dermatology, ophthalmology, orthopedics and dentistry. Thanks to proprietary fluidics and electronics features, Intuity® Gel provides a safe and efficient solution for precise injections.

KEY FEATURES (USP)

- **Effortless:** easy injection of highly viscous products, gels, cements or pastes through thin needles,
- **Reliable:** accurate dosage and minimum product loss for optimum results,
- **Compact and Universal:** adapted to standard syringes,
- **Easy-to-use:** easy handling for medical staff, including three finger grip.

Website: www.eveon.eu

Product video demo: https://vimeo.com/313981262

IQ-Dose

Company name: SGH Healthcaring
Product name: IQ-Dose
Product type: Drug delivery Device
Development phase: Commercialization
Honour: Pharmapack Awards 2019 winner
Target markets: Europe, North America, China
Target clients: Pharmaceutical companies

Contact person:
Virginie Delay, *Head of Marketing*
Email: v.delay@sgh-healthcaring.com
Telephone: +33 476380844
Country: France

Business model:
Direct sales, Contract Manufacturing

FACT SHEET

PRODUCT DESCRIPTION

IQ-Dose (intuitive and quick-dose) is an efficient, easy-to-use device made for dosing and counting mini-tablets. This new solid form of pellet allows the administration of tiny doses, exactly adjusted to a patient's needs; the disadvantage, however, is that the small size of the pills make them difficult to count. The IQ-Dose is a new solution for overcoming these difficulties. Hygienic and accurate, the device allows the selection of the exact quantity of mini-tablets prescribed, from one to 24, in one go, without the need for any contact with the hands.

APPLICATION AREAS

Especially used during trials phase for paediatrics medicine, but also in specific treatments such as Parkinson's, oncology treatment, psychiatrics and others.

KEY FEATURES (USP)

The device allows you to select the exact quantity of mini-tablets prescribed, from 1 to 24, in one go. No need to count one-by-one, no risk of error, no risk to spill the mini-tablets. Very hygienic, the tablets remain in their primary packaging, they never come into contact with your hands.

Website: https://www.sgh-healthcaring.com/en/one-by-one-dispensing/75-iq-dose.html

Iridya™

Company name: Silgan Dispensing
Product name: Iridya™
Product type: Primary Packaging
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2019
Target markets: Global
Target clients: Pharmaceutical companies

Contact person:
Ralf Hergenröther, Marketing Director
Email: ralf.hergenroether@silgandispensing.com
Telephone: +33 648074609
Country: France

Business model:
Direct sales

FACT SHEET

PRODUCT DESCRIPTION

Iridya™ improves on existing eye dropper technology by combining advanced ergonomics and precise dispensing to ensure proper dosage. The device addresses key consumer pain points and ophthalmologist dosing challenges and works with a specially designed plastic squeeze bottle which appeals in form and function to pharmaceutical companies, doctors and patients.

APPLICATION AREAS

The Iridya™ eye dropper features Silgan Dispensing's NO-JET™ technology that ensures consumers obtain an accurate dose and an easy to use design, while also providing safe delivery of ophthalmic medication. Its elongated tip provides greater accuracy when dispensing drops into the eye, and its low-force squeeze and ergonomic grip on the overcap makes it easy to use.

In addition, Iridya's sealing and barrier system to prevent contamination is compatible with liquids from low to high viscosities, allowing for the use of preservative-free formulations for prescription and over-the-counter medications.

KEY FEATURES (USP)

ADVANCED ERGONOMICS
- Round squeeze bottle design with low actuation force
- Elongated tip for greater accuracy in drop administration to the eye

EXCEPTIONAL DOSING CONTROL
- Precise dosing, drop by drop
- Advanced Flow Control™ for greater drop control

STRONG MICROBIOLOGICAL PERFORMANCE
- Rigorously tested for microbiological safety
- Innovative mechanical features to protect preservative-free formulations

EXCEPTIONAL FLEXIBILITY
- Easily adapts to different formulation properties
- Compatible for low-to-high viscosities

Website: https://silgandispensing.com/products/iridya

Product video demo: https://youtu.be/RTMBqT950co

Luer Vial

Company name: GEMUE GmbH Switzerland
Product name: Luer Vial
Product type: Primary Packaging
Development phase: Proof of concept
Honour: Pharmapack Innovation Gallery 2019
Target markets: Americas, Europe, Asia
Target clients: CMO/CDMO

Contact person:
Raimund Bislin, *Head of Medical Division*
Email: raimund.bislin@gemue.ch
Telephone: +41 794038702
Country: Switzerland

Business model:
Direct sales, Out-licencing

FACT SHEET

PRODUCT DESCRIPTION

LUER VIAL, the non-aerosol single use Device for spray, drop & glue applications – also for overhead use. Single hand activation & application -> high usability (focus on patient). Insurance proofed.

This Luer Vial device is applicable for various business fields like pharma-/ biotech, medical, cosmetics, dental and the animal health field.

APPLICATION AREAS

Luer Vial allows precise human ingredient application with maximized efficiency in the medical, pharma, biotech and healthcare fields.

KEY FEATURES (USP)

LUER VIAL, the non-aerosol single use device for direct activation to spray, drop & glue in any application.

Main areas of use:
- Wound care
- Topical Anaesthetic
- Oral Anaesthetic
- Surface Applications

Website: https://www.gemu-group.com/de_CH/medizintechnik/

MiniPill 7

Company name: PACKSYS GmbH
Product name: MiniPill 7
Product type: Primary Packaging
Development phase: Prototype
Honour: Pharmapack Innovation Gallery 2019
Target markets: Europe
Target clients: Pharmaceutical companies

Contact person: Veronika Lössl, *R&D Engineer*
Email: veronika.loessl@packsys.de
Telephone: +49 81579251121
Country: Germany

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

The MiniPill 7 is a one-by-one dispensing system for mini pills. Excluding the container, the dispenser consists of only two plastic parts, the dispenser itself and the cap. The button which looks like the number seven is bent immediately after the injection moulding process to place it over the little tube where the pills come out. This idea allows us to produce the entire dispensing unit in one part which helps reduce costs.

Of course all used materials comply with the European Pharmacopeia.

In the last years dispensing systems are getting more and more complex and consist of many parts of different plastics or even metals. This is not sustainable. We tried to reduce the used amount of material, to reduce the number of parts and to use only PE/PP material.

APPLICATION AREAS

Minipills are a new kind of medication mainly for babies, children and elderly people. They allow a very exact dose according to the actual weight of the patient. Minipills are so small, they can even be taken by babies. However some elderly patients no longer have the ability to see and handle such small pills.

KEY FEATURES (USP)

The PACKSYS Mini Pill 7 provides a one-by-one dosing of Mini Pills in a very smart and easy way.

Counting and therefore taking the right amount of pills is much easier than it would be in a small bottle or tube without dispenser. The process on the filling line is the same. It is only necessary to snap or screw the dispenser incl. cap onto the container. The Mini Pill 7 is adaptable to glass or plastic bottles and tubes from 3 to 10ml. Even though it is a dispensing system it is completely tight.Because of its simplicity it takes little effort to adapt the system to different pill sizes. All used PE/PP materials are standard pharma grades and comply with the European Pharmacopeia.

Website: https://packsys.de/innovation/

Product video demo: https://vimeo.com/306377228

Phillips-Medisize
Connected Health Platform (CHP)

Company name: Phillips-Medisize
Product name:
Phillips-Medisize Connected Health Platform (CHP)
Product type: Drug delivery Device
Development phase: Commercialization
Honour: Pharmapack Awards 2019 winner
Target markets: Asia, Europe, North America
Target clients: Pharmaceutical companies

Contact person:
Paula Kasper, *Marketing Coordinator*
Email: paula.kasper@phillipsmedisize.com
Telephone: +41 448383933
Country: Switzerland

Business model:
Contract Manufacturing

FACT SHEET

PRODUCT DESCRIPTION

Phillips-Medisize, a Molex company created a unified information-sharing and analytics platform that enables pharmaceutical companies to connect medication and diagnostic information across their therapy areas on a commercial scale. The novel cloud-based CHP provides a customizable, scalable medical device data system (MDDS) for pharmaceutical companies and drug delivery device developers. The CHP provides customers with a strong technological foundation and complements Phillips-Medisize's end-to-end services which span front-end innovation, early stage development, manufacturing development, clinical supply through commercial manufacturing, and post-launch services.

This innovation allows customers to rapidly and securely manage the data generated as patients use their products. Through accelerated configuration of a proven MDDS and related components, customers can now get compliant systems up and running in months, saving significant time and cost as compared to custom or unproven developments.

APPLICATION AREAS

The award-winning, FDA registered CHP helps to reduce cost and time to market for connected health solutions. It encompasses extensive information-sharing, analytics capabilities, robust cybersecurity and streamlined regulatory documentation. The advanced analytics package is designed for connected drug delivery devices, biosensors and regulated Mobile Medical Applications (SaMD/MMA). Data collected by connected devices using the Phillips-Medisize CHP can be shared securely to inform the patient and their healthcare provider when medications have been administered. Data can be combined with information from diagnostic devices and biometric sensors to generate further patient insights. Ultimately, connected health solutions may help patients improve medication adherence.

KEY FEATURES (USP)

Phillips-Medisize, a Molex company was at the forefront of connected health solutions with the first FDA registered combination product, BetaConnect. The global innovation and development team has taken the experiences gained in regulatory submission, field support, market surveillance, data security and analytics, and patient support from the first-in-market launch and applied them to its latest release, its enterprise-scale, cloud hosted, medical device data system (MDDS) Connected Health Platform. This complete ecosystem including connected devices, digital interfaces and cloud platforms allows customers to rapidly and securely manage the data generated as patients use their medical device products.

Website: https://www.phillipsmedisize.com/who-we-serve/connected-health

PureHale by Aptar Pharma

FACT SHEET

Company name: Aptar Pharma
Product name: PureHale by Aptar Pharma
Product type: Drug delivery Device
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2019
Target markets: Global
Target clients: Pharmaceutical companies

Contact person: Guenter Nadler, *Director Business Development Consumer Healthcare Division*
Email: guenter.nadler@aptar.com
Telephone: +49 7721801-0
Country: Germany

Business model: Direct sales

PRODUCT DESCRIPTION

Aptar Pharma's PureHale is an industry-first, a portable and ready-to-use nebulizer-like technology platform designed to deliver natural care to the upper airways via a continuous fine mist, which gently cleanses, moisturizes and soothes.

APPLICATION AREAS

PATIENT/CONSUMER BENEFITS

- PureHale has been specifically designed using patient insights to offer solutions to traditional nebulizer challenges
- Quieter non-electronic technology for consistent operation, eliminating the need to plug in or charge
- Comes prefilled
- Featuring an interchangeable mask & mouthpiece for flexibility

INDUSTRY BENEFITS

- PureHale is the first device of its kind, establishing a completely new category for delivering portable natural care to the upper airways
- PureHale enables pharmaceutical partners to expand their audience reach for their brand formulations, providing portable, symptomatic relief for upper respiratory system conditions
- PureHale provides brand differentiation via a range of personalization options including several standardized container sizes. With minimal parameter changes, pre-existing filling processes can be easily adapted for PureHale filling
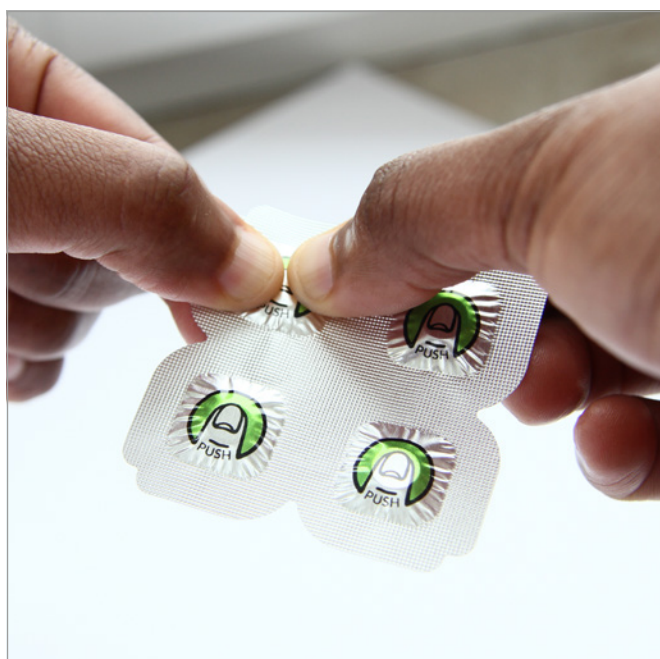
KEY FEATURES (USP)

- PureHale by Aptar Pharma is a revolutionary new way of delivering portable natural care to the upper airways
- PureHale helps provide symptom relief for upper airway conditions when used with saline and other natural formulations
- PureHale is the industry's first, ready-to-use, nebulizer-like system that's portable
- PureHale's modular technology platform enables a diverse and highly-efficient product Portfolio
- PureHale is a non-electronic, purely mechanical system
- PureHale supports symptom relief for upper airway conditions such as coughs, colds, allergies and other irritations

Website: https://pharma.aptar.com/en-us/dispensing-solutions/purehale.html

Product video demo: https://www.youtube.com/watch?v=QRJYJxjFcII

Push Tab®

Company name: Huhtamaki Flexible Packaging Germany GmbH & Co. KG

Product name: Push Tab®

Product type: Primary Packaging

Development phase: Prototype

Honour: Pharmapack Awards 2019 winner

Target markets: Europe, North America, Asia

Target clients: Pharmaceutical companies

Contact person:
Fabio Daidone, *Senior Sales Manager*

Email: fabio.daidone@huhtamaki.com

Telephone: +49 830677184

Country: Germany

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

Huhtamaki's Push Tab® is a flexible blister solution for tablet packaging. It presents a new child-safe way of opening a strip pack by pushing through the tablet. The barrier properties are not affected in any way by pushing through the film and thus guarantee the highest levels of product safety. The risk of migration is also very low, as the laminate does not contain any solvents. Push Tab® is suitable for all climate zones.

It is available in unlimited forms and shapes for differentiation. The material is also easy to print on with different technologies, which provides new opportunities for design and product visibility.

Recyclable versions are in development.

Contract manufacturing and packing is possible.

APPLICATION AREAS

Push Tab was specifically developed as an alternative to high barrier blisters and cold form for all different tablets and capsule shapes and forms. Its main benefits for application are the fact that the material is PVC free and cost effective. The material provides the highest barrier properties with improved shelf life, either with an aluminium or transparent barrier.

KEY FEATURES (USP)

The USP of Push Tab is the combination of sustainable approach, PVC free material and packaging material reduction overall, marketing possibilities (both sides of material can be printed on, even the inner layer) and one material which is suitable for all climate zones, but still provides the barrier properties at a lower costs compared to blister or cold form applications with same barrier.

Website: www.pushtab.eu
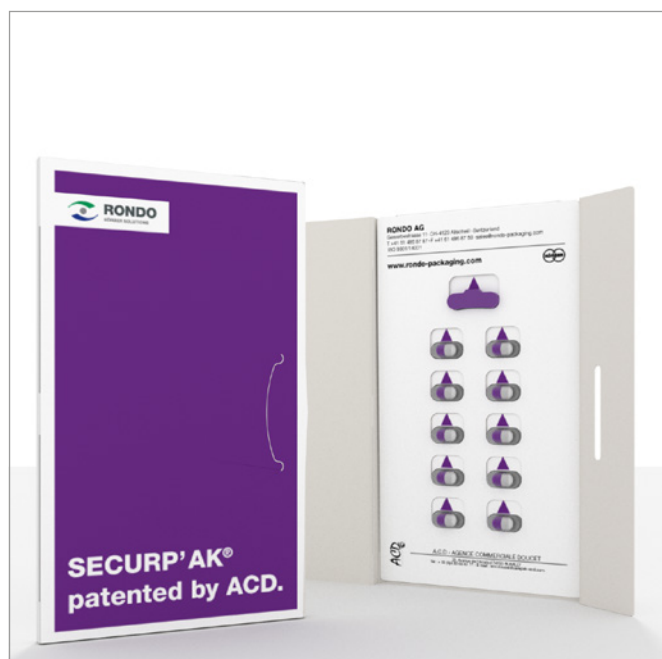
SECURP'AK®

Company name: Rondo AG
Product name: SECURP'AK®
Product type: Secondary Packaging
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2019
Target markets: Europe
Target clients: Pharmaceutical companies

Contact person:
Julia Schweizer, *Product Manager*
Email: j.schweizer@rondo-packaging.com
Telephone: +41 614868787
Country: Switzerland

Business model: Direct sales,
Out-licencing

FACT SHEET

PRODUCT DESCRIPTION

SECURP'AK® is a child proof packaging for solid products within a blister. The focus of further development was particularly on easy handling in the form of a wallet. A further plus point: the mechanism is senior-friendly, easy to open and close for patients with limited handling skills.

APPLICATION AREAS

SECURP'AK® is a child proof packaging for solid products within a blister

KEY FEATURES (USP)

SECURP'AK® advantages at a glance:

- Child-resistant until the last product is removed
- Easy to use
- «F1» certified
- Senior-friendly
- The format is optimized for the size of the blisters
- The mechanical part made of plastic has been reduced to a minimum
- Space for prescriptions to increase patient compliance
- Possible adaptation to different blister formats
- Suitable for clinical studies

Website: https://www.rondo-packaging.com/en/solutions/child-resistance/

Product video demo: https://youtu.be/wZwgG1qYO_E

Stölzle Glass Tracking & Tracing

Company name: Stölzle Oberglas
Product name: Stölzle Glass Tracking & Tracing
Product type: Primary Packaging
Development phase: Prototype
Honour: Pharmapack Innovation Gallery 2019
Target markets: Europe, North America
Target clients: Pharmaceutical companies

Contact person:
Jan Luccarda,
Head of Business Unit Pharma & Medical
Email: alexandra.sonnleitner@stoelzle.com
Telephone: +43 3144706315
Country: Austria

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

Applying modern Tracking & Tracing systems on primary packaging used for Pharmaceutical products has become vital due to the overwhelming challenges of counterfeiting we are facing nowadays. Stölzle helps protect your products from manipulation and counterfeiting by a sophisticated technology: the glass bottles themselves are marked invisibly via UV print by laser during production so that every single item can be securely traced and tracked to its origin. The code can be serialized and is easily scanned by a smartphone camera. The code eases several processes throughout the life circle of your product, such as logistics, but also rejections, claims, market recalls and more.

APPLICATION AREAS

Tracing & Tracking by Stölzle is a fast and reliable way to increase the safety of your products. The invisible, serialized code on the primary packaging can be scanned by a simple smartphone camera. You will be able to see at a glance where the bottle comes from and if the container is fake. The coding will improve IoT on your site, by supplying valuable information for logistic processes and will ease the handling of threatening claims or market recalls.

KEY FEATURES (USP)

Stölzle guarantees in-line checking of all primary packaging as well as scrupulous documentation of in-process controls such as visual body inspection, check of neck finish and other parameters. We take advantage of a large pool of audited suppliers and our consistent documentation of all raw materials. The regular maintenance of our state-of-the-art machines and tools is one of our undiscussed prerequisites, as well as employing educated and highly trained staff. To increase safety and limit contamination of your products we offer automated robotic shrinking, packing and palletizing according to the customers specification.

Website: www.stoelzle.com

syriQ BioPure®

FACT SHEET

Company name: SCHOTT AG
Product name: syriQ BioPure®
Product type: Primary Packaging
Development phase: Commercialization
Honour: Pharmapack Awards 2019 winner
Target markets: Global
Target clients: Biopharmaceutcial companies

Contact person:
Nicolas Eon, *Global Product Manager*
Email: nicolas.eon@schott.com
Telephone: +41 712741600
Country: Switzerland

PRODUCT DESCRIPTION

SCHOTT's new syriQ BioPure® prefillable glass syringes were designed specifically for the biologics market, keeping sensitive drugs stable, easing administration and shortening time to market. The improved drug stability is reached through enhanced manufacturing processes, which lead to ultra-low tungsten level and low adhesive residuals, resulting in reducing the risk of potential interactions with other materials. Additionally, a homogeneous silicone layer ensures a consistent gliding performance, which is essential to ease administration for the patient. Superior functionality is achieved through tighter dimensional tolerances and a verified compatibility with safety devices. The syringes are made of FIOLAX® borosilicate glass and are available in more than 48 pre-validated configurations.

APPLICATION AREAS

Today, two thirds of pharma companies' pipelines are dedicated to biologic drugs. The structure of protein-based drugs is far more complex and variable than most generic drugs. This increases the risk of interaction with other materials, which can affect the active ingredient. On top of that, the drugs are highly viscous, making the administration more difficult and even causing discomfort or pain for the patient. This is where syriQ BioPure® comes into play.

KEY FEATURES (USP)

An ultra-low tungsten level, no glue residuals and a low amount of particles enhance the E+L profile of this specific syringe, thus improving the stability of highly sensitive biotech drugs. Additionally, dimensions beyond ISO requirement and tighter geometrical tolerances ensure the device compatibility by design, and therefore lead to superior functionality. Plus, a homogenous silicone layer provides smooth gliding forces and guarantees the best patient experience. With multiple pre-validated, DHF-ready syringe combinations and different verified device performances, syriQ BioPure® allows for a short time to market, enabling pharmaceutical companies to deliver biologic drugs to their patients in a safe and easy way.

Website: https://www.schott.com/innovation/en/syriq-biopure/

Product video demo:
https://www.youtube.com/watch?v=0jjX0xq6HWM&list=PL4pKPtynVQPcrLx9ceY2uurxR-lsk8MlE&index=10&t=0s

INNOVATION
BOOKLET

2018

2in1 PUNCHER & ADAPTER DEVICE

Company name: CORADIN S.A.S
Product name:
2in1 PUNCHER & ADAPTER DEVICE
Product type: Primary Packaging
Development phase: Prototype
Honour: Pharmapack Innovation Gallery 2018
Target markets: Global
Target clients: Pharmaceutical companies

Contact person:
Efi Moraitou, *Sales Administration Manager*
Email: efi.moraitou@coradin.com
Telephone: +33 492288000
Country: France

Business model:
Co-development with
BOEHRINGER INGELHEIM

FACT SHEET

PRODUCT DESCRIPTION

The "2in1 PUNCHER & ADAPTER DEVICE" is a very compact product that allows mixing a powder (drug) contained in a chamber within an adapter together with a liquid which is filled in a bottle. The operation is easy and safe. The user and/or patient will not be in contact with the potent powder. The final mixed solution can be dosed with a pipette several times.

APPLICATION AREAS

The Drug Powder is highly protected in a container and, after release, the chamber is completely rinsed off so that the maximum amount of drug will be mixed together with the drinkable solution.

KEY FEATURES (USP)

- Innovative Device developed for heavy pathologies
- Device highly protects and isolates potent drugs in a specific chamber
- Safe: no contact with the powder when opening and mixing
- Easy drug delivery to the patient

Website: http://www.coradin.com/

ActiveGuard™

IT'S ALL ABOUT THE *Click*

Company name:
LOG Pharma Primary Packaging

Product name: ActiveGuard™

Product type: Primary Packaging

Development phase: Commercialization

Honour: Pharmapack Innovation Gallery 2018

Target markets: North and South America, Europe, Asia

Target clients: Pharmaceutical companies

Contact person:
Chen Shitrit, *Marketing and Sales Support*

Email: chen.shitrit@logpac.com

Telephone: +972 46756475

Country: Israel

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

LOG's ActiveGuard™ is a component prefilled with desiccant or oxygen absorbers, which after tablet filling is then inserted in the neck of LOG's unique barrier bottles. When fixed in place, the ActiveGuard™ allows the contents of the bottle to be easily dispensed and prevents any direct contact with any desiccants. This segregation also prevents any mistaken ingestion of desiccants and assures the permanent existence of desiccant in the bottle. The ActiveGuard™ can be prefilled with desiccants and/or oxygen absorbers according to customer requirements.

APPLICATION AREAS

The ActiveGuard™ is an innovative product for pharmaceuticals that require the highest barrier against moisture and/or oxygen to pass stability tests and/or to extend the shelf life of the drug.

At LOG, we are committed to Creating Confidence

- Confidence that your product will be protected and delivered in the best possible condition.
- Confidence that LOG will deliver cutting-edge innovation that will meet your current and future market needs.
- Confidence that LOG is the right choice as your long-term partner.

KEY FEATURES (USP)

- Eliminates the need for desiccant sachets or canisters
- Allows the use of heat seal liners for hermetic sealing and tamper resistance
- Cannot fall in or out of the packaging
- Removes the risk of swallowing the sachet/canister accidentally
- Allows controlled dispensing of tablets
- No direct contact with tablets, avoiding possible damage
- Positioned in previously unused space
- Does not reduce valuable tablet-space
- Reduces head space

Website: http://logpac.com/packaging-solutions/active-barrier-packaging-solutions/

Product video demo: https://youtu.be/SL6qjwoUuT8

AeroLock CR
Child resistant feature for nasal, topical and dropper pumps

Company name: Aero Pump GmbH
Product name: AeroLock CR
Product type: Primary Packaging
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2018
Target markets: Europe, North America
Target clients: Pharmaceutical companies

Contact person:
Rouven Kraus, *International Sales*
Email: rouven.kraus@aeropump.de
Telephone: +49 6146603115
Country: Germany

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

Aero Pump has developed a child-resistant packaging preventing children from getting into contact with the contents of a bottle that contains toxic substances leading to unintentional poisoning, but at the same time without becoming too difficult for older patients to use.

This device combines an intuitive "press & turn" mechanism for easy handling together with an established senior –friendly design. As an additional safety feature this device has a snap-on closure which prevents the removal of the pump from the bottle.

In the study performed by the "IVM Childsafe, accredited Certification Body and Testing Laboratory" it became clear that especially older patients are positive about the device due to its well-hand-fitting size and self-explanatory usage.

It can be used with nasal, topical and dropper pumps and is also available for preservative-free formulations.

APPLICATION AREAS

Hazardous substances e.g. Imidazolines that fall under the authority of the Poison Prevention Packaging Act (PPPA) must be in child-resistant packaging systems that comply with US 16CFR §1700.20 requirements.

AeroLock, the child proof pharmaceutical packaging prevents your children from ingesting products that could be harmful or toxic.

KEY FEATURES (USP)

- Intuitive "press & turn" mechanism for easy handling
- Established senior-friendly design
- Unique CR-design covering the whole device
- Extendible tamper-evident feature on request
- Safety Snap-on closure
- Combined with the standard Aero Pump design
- US 16CFR § 1700.20 and ISO 8317 compliant

Website: https://www.aeropump.de/fileadmin/user_upload/pdf/AeroLock_CR_1_seiter_Aeropump_19102017.pdf

Connected per pill monitoring device

Company name: Baswen Medication Inc
Product name:
Connected per pill monitoring device
Product type: Primary Packaging
Development phase: Prototype
Honour: Pharmapack Awards 2018
Top 10 Innovations
Target markets: North America, Europe, Asia
Target clients: Pharmaceutical companies

Contact person:
Mia Yim, *Business Development*
Email: ma.yim@baswen.com
Telephone: +82 10 9104 1775
Country: Republic of Korea

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

Our connected per pill monitoring solution provides patient-generated evidence data of the exact dosage amount and time a medication is taken from pill bottles, by controlling single dosage exit and analysing its exit pattern with electronic sensors. The monitoring device on pharmaceutical or pharmacy bottles generate single dose dispensing time evidence with patient's usual medication behaviour in real-time and transmits the data to a platform.

Its single dose dispensing mechanism allows the exit of a single tablet per patient's act of tilting down medicine bottle and thus ensures the capture of medication data through an IR sensor on an electronic add-on device. The time-stamped medication evidence data is transmitted via mobile application to platforms to provide for payers, patient's medication intervention, or other stakeholders of healthcare services as a Real-World Evidence (RWE) asset.

APPLICATION AREAS

The spectrum of drug range includes:

Mental health, Cardiology, Metabolic conditions, Infectious diseases, and Oncology Cancer, Schizophrenia, Organ transplant, HIV, Hepatitis, Rheumatoid arthritis, Pulmonary hypertension, Opioid

KEY FEATURES (USP)

- Counting, recording, tracking of medication data in real time
- Providing accurate medication data connecting with mobile application
- Analysing the exit pattern of each pill
- Prevention of misuse or overdose
- Real-time adherence management system
- Medication taken reporting service

Website: www.baswen.com

Product video demo: www.baswen.com/video/bas01/

D-Flex Connected Solution

Company name: Haselmeier
Product name: D-Flex Connected Solution
Product type: Drug delivery Device
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2018
Target markets: Global
Target clients: Pharmaceutical companies

Contact person:
Silvia Wilkes, *Marketing Manager*
Email: s.wilkes@haselmeier.com
Telephone: +49 71171978183
Country: Germany

Business model: Connected solution for smart data management to support pharmaceutical companies, biopharmaceutical companies and clinical research organizations in the course of clinical trials and in a further step even beyond, by providing a connected commercial device.

FACT SHEET

PRODUCT DESCRIPTION

D-Flex Connected Solution is a new platform of injection systems and connected solutions. Allowing smart data management for therapy efficiency, offering great opportunities to develop customized solutions for clinical studies and supporting a fast way to connected commercial devices.

APPLICATION AREAS

The D-Flex injection pen can do more than previous pens. D-Flex can be configured for several fixed dose values and is thus a variable fixed dose pen. It makes it possible to integrate a certain dosage value or several different fixed dosage volumes in one injection device. The D-Flex injection pen can be combined with a smart cap if necessary, thus forming a system that has the necessary connectivity for smart health applications. The data can be managed with a smartphone and sent to selected people or offices.

KEY FEATURES (USP)

- Safe to use for patients: Easy dose correction to avoid injection errors, unintended dosage and loss of drug
- Perfect for clinical Trials: Easy adaptation to different dose requirements
- Supporting therapy efficiency: Allows connectivity and smart data management

Website: https://connected.haselmeier.com/

Product video demo: https://www.youtube.com/watch?v=eHvl-glfy0A&t=21s

diialog

Company name: Cambridge Design Partnership
Product name: diialog
Product type: Drug delivery Device
Development phase: Prototype
Honour: Pharmapack Awards 2018 Top 10 Innovations
Target markets: North America, Europe, Asia
Target clients: Pharmaceutical companies

Contact person:
Tom Lawrie-Fussey, *Digital Services Specialist*
Email: tom.fussey@cambridge-design.com
Telephone: +441223264428
Country: UK

Business model: Design and Engineering Innovation Consultancy

FACT SHEET

PRODUCT DESCRIPTION

diialog is a user insights service comprising a suite of miniature sensor modules and data analysis capabilities. We help clients to better understand the in-home patient experience (aimed primarily at clinical studies) so that data outliers (i.e. those patients who didn't correctly adhere to the regimen) can be better understood and potentially excluded from further analysis, thereby focusing such studies on the efficacy of the drug itself.

The diialog module itself is hidden within the device itself, and requires no intervention by the patient- it logs all use during the study- typically up to 1 month in-home use.

APPLICATION AREAS

We have targeted a variety of application areas- with the current focus being clinical studies for injectors and inhalers (we have built both embodiments as working demonstrators). The value we deliver is how our data scientists are able to translate the raw data feed into tangible, actionable insights.

We help our clients to create sensor modules that are optimised to the user-errors they wish to better quantify- we then decode this into an insights report that our clients are able to quickly understand and action. Our clients often see this as a step towards their connected future.

KEY FEATURES (USP)

We are very experienced in providing this user insights service.

Our experts are able to equip any device with the necessary tech, and we can offer a unique turn-key service that focuses on the value that we unlock. We take a lot of the complexity and risk burden away from our clients, so that they can focus on the lessons learned, and relevant actions.

We have a number of modules now ready off-the-shelf, and a team of experts experienced in quickly translating data into insights.

Website: https://www.cambridge-design.com/diialog

Product video demo: https://vimeo.com/216480567

ELISA-KITBox

Company name: August Faller GmbH & Co. KG
Product name: ELISA-KITBox
Product type: Secondary Packaging
Development phase: Prototype
Honour: Pharmapack Innovation Gallery 2018
Target markets: Europe
Target clients: Pharmaceutical companies

Contact person:
Charis Bayer, *Expert Marketing Communication*
Email: charis.bayer@august-faller.com
Telephone: +49 7681405264
Country: Germany

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

The Faller ELISA KIT BOX is a multifunctional packaging set, which can be used for different ELISA kit formats despite the standardised packaging measurements. The Faller ELISA KIT BOX offers optimum use of the whole packaging area for the required kit components and product description in one handy, compact design.

The fluid kit components can be securely fixed at different sizes using two inserts so that the required level of damage protection is guaranteed. The inserts, which lie on top of one another, also add to the stability of the box and ensure the best possible level of protection for the product. Another advantage: the inserts can be used modularly as required and depending on the number of bottles. Maximum flexibility!

APPLICATION AREAS

The Faller ELISA KIT BOX is a folding carton with two inserts to secure different kit components. No plastic parts are used inside or out. It is made exclusively of quality monomaterial.

KEY FEATURES (USP)

The Faller ELISA-KIT Box is a folding carton with two inserts that offers optimum use for kit components. Resistance to breakage and flexibility when putting together the kits is particularly important. The liquid reagents can be securely fixed in the inserts and used modularly as required.

The inserts, which lie on top of one another, also add to the stability of the box. A space saving packaging design had to be considered in order to be able to store the kit components in the fridge.

Website: https://www.august-faller.com/de/lp_diagnostics.html

Foldingconfigurator Customized Leaflets
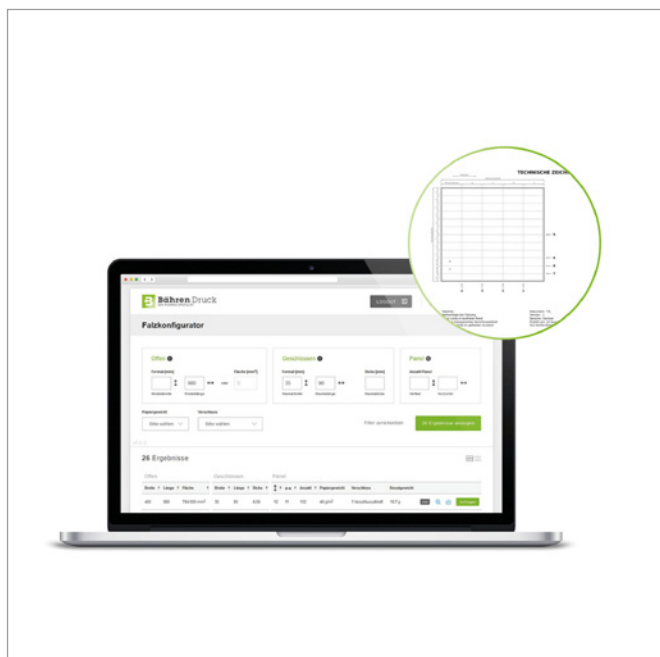
Company name:
Baehren Druck – Der Pharma-Spezialist

Product name:
Foldingconfigurator – Customized Leaflets

Product type: Secondary Packaging

Development phase: Commercialization

Honour: Pharmapack Innovation Gallery 2018

Target markets: Global

Target clients: Pharmaceutical companies

Contact person:
Sandra Bratschke, *Marketing Manager*

Email: bratschke@baehren-druck.de

Telephone: +49 1785313541

Country: Germany

FACT SHEET

PRODUCT DESCRIPTION

A leaflet should be easy to read, understand and use for the patient! Regulatory EU directives and official regulations such as the 2004/27 / EC (Readability Guideline) are intended to ensure this by numerous requirements (e.g. minimum font size, minimum line spacing, etc.) This leads to larger leaflets and subsequently to an increasing space requirement. In addition, more and more information carriers (PIL-IFU-SmPC) are to be accommodated in a packaging, such as the device and the drug section, the doctor and the pharmacist section, the doctor and the patient section, several language versions and an additional patient alert card.

Industry trends move towards more and more complex processes and larger products – this is shown by the development of end-folded leaflets, patient alert cards and combination products, which we do not only develop tailor-made, but also produce safely and reliably.

The folding configurator supports the ambitious creation process – quickly and easily.

APPLICATION AREAS

The configurator is a powerful tool in the development and optimization of leaflets. Whether for packaging technologists in pharmaceutical companies, artwork agencies or packaging manufacturers, the application offers considerable simplification in many areas.

KEY FEATURES (USP)

Taking into account the usual machine technology, the foldingconfigurator creates generally valid folding schemes including dimensioning and title position. With a dynamic product calculation you get an overview of possible designs.

Website: www.foldingconfigurator.com

Product video demo: https://vimeo.com/239441439

Hicof AMACODER

Company name: Hicof Inc.
Product name: Hicof AMACODER
Product type: Secondary Packaging
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2018
Target markets: Global
Target clients: Pharmaceutical companies

Contact person: Sergej Toedtli, CEO
Email: sergej@hicof.com
Telephone: +41 447873955
Country: Switzerland

Business model: Direct sales. We offer serialization / aggregation kits for packaging machine manufacturers for integration into their lines.

FACT SHEET

PRODUCT DESCRIPTION

Hicof is the innovative and dynamic technology leader in the serialization/ Track & Trace industry. We offer turn-key solutions, combining our own serial data management software with industrial production lines for coding of packs and aggregation of serialized packaging hierarchies. For the customer this means: One solution – One supplier – One responsibility. We operate on a global base with a focus on the pharmaceutical industry.

Based on 20 years of experience Hicof offers the powerful, comprehensive serialization data management Software AMACENA, for corporate use by large companies using web technologies and artificial intelligence. AMACENA is the backbone of our serialization/Track & Trace system. It supports the related business processes, controls coding and aggregation lines and exchanges serial data with business partners and governments.

APPLICATION AREAS

Serialization is a technology where each sellable item/ SKU gets a machine readable, unique serial number which is stored on a database. With this technology the flow of products through the supply chain can be monitored (Track & Trace). The benefit of this technology is the improved transparency of the supply chain, offering significant protection against illicit and counterfeit products. Serialization is mandatory in the European pharmaceutical industry since February of this year. In many other countries such as CIS States (Russia and its allies), US, Brazil, Korea, Turkey and China, laws are in place and will be enacted soon.

KEY FEATURES (USP)

Hicof is the first and only company offering a coding/ labelling line which works intermittently. The unique, patent applied concept of the Amacoder uses pushers for transporting the boxes through the machine. Therefore, no conventional conveyor is necessary. The line, made with Swiss craftsmanship, provides high print quality at low reject rates. The Hicof AMACODER can be delivered in versions with or without tamper evident label applicators. If the coded boxes are packed in shipping cases, we can provide aggregation if mandated by law. Hicof supports this process with its own software and machines by correlating the numbers on the boxes with the serial number in the shipper.

Website: www.hicof.com

Product video demo: https://www.hicof.com/product/amacoder/

iQ™. The Global RTU Standard

Company name: SCHOTT AG
Product name: iQ™. The Global RTU Standard.
Product type: Primary Packaging
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2018
Target markets: Global
Target clients: Pharmaceutical companies

Contact person:

Anil Kumar Busimi,
Senior Global Product Manager

Email: anil-kumar.busimi@schott.com
Telephone: +41 712741600
Country: Switzerland

FACT SHEET

PRODUCT DESCRIPTION

iQ™ is a holistic platform that provides nested ready-to-use (RTU) syringes, vials and cartridges within an industry standard tub format. Pharma companies can thus fill various drug/container configurations on the same flexible line, reducing changeover times. With iQ™ the number of required format parts is minimized, time for qualification and validation is decreased, capital investments and running costs reduced by up to 40% and clean room space by up to 60%. The platform includes a versatile portfolio of vials, syringes and cartridges as well as pre-tested container/elastomer combinations. Moreover, iQ™ is compatible with 50+ machine types from leading machine vendors.

APPLICATION AREAS

Nowadays, drugs need to be manufactured in ever-smaller batches and in shorter periods of time, while at the same time adhering to higher quality standards. The iQ™ standardized tub format increases flexibility and greatly reduces complexity. Therefore the iQ™ platform is the right choice for pharmaceutical companies and CMOs alike, when it comes to flexible filling requirements.

KEY FEATURES (USP)

The SCHOTT iQ™ platform provides quality primary packaging containers in a ready-to-use format. All iQ™ products are made out of FIOLAX® borosilicate glass tubing. The nest design avoids glass-to-glass contact and therefore reduces the risk of glass breakage and particle generation significantly. The industry standard tub allows all iQ™ products to be processed by a broad range of cutting-edge filling lines while accomplishing quick changeover times. All in all, the iQ™ platform allows to increase flexibility, reduce complexity and enhance quality.

Website: https://microsites.schott.com/iq/english/index.html

Product video demo:
https://www.youtube.com/watch?v=yyRBzyfWTFE&list=PL4pKPtynVQPcrLx9ceY2uurxR-lsk8MlE&index=13

ISS – Integrated Safety System

Company name: Ompi – Stevanato Group
Product name: ISS – Integrated Safety System
Product type: Primary Packaging
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2018
Target markets: North America, Europe, Brazil
Target clients: Pharmaceutical companies

Contact person:
Daniel Martinez, *Product Management Leader for Syringes and Components*
Email: daniel.martinez@stevanatogroup.com
Telephone: +39 0499318619
Country: Italy

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

ISS is an innovative, fully passive EZ-fill® integrated safety system designed to prevent needle-stick injuries and to reduce total cost of ownership for the pharmaceutical companies.

APPLICATION AREAS

Low-molecular-weight heparins (LMWHs), used as anticoagulants for the prophylaxis of deep venous thrombosis (DVT) and in the inpatient treatment of DVT and pulmonary embolism (PE), are some of the key applications for ISS.

KEY FEATURES (USP)

The new technology guarantees patient safety and reduces the customers' Total Cost of Ownership through:
- prevention of needle stick injuries
- reduction of non-quality costs (missed activation and faulty functionality)
- reduction of logistic space (incoming and outgoing)
- lower impact on secondary packaging (blister and carton box)
- minimization of regulatory impact
- investment for safety device assembling machines

The ISS Platform is designed to be customizable to meet the needs of different drug products applications such as Biotech, Heparin, Small Molecules, and Vaccines. Customization is related to: Plunger Stopper ISO Standard design; Plunger rod and backstop; Other customizable features on demand. ISS is designed to be supplied in a standard Nest and Tub configuration for easy processing on existing fill-finish lines.

Website:
https://pharma.stevanatogroup.com/glass-primary-packaging/products-platforms/integrated-safety-system-syringes/

nextaro®

Company name: sfm medical devices GmbH
Product name: nextaro®
Product type: Drug delivery Device
Development phase: Commercialization
Honour: Pharmapack Awards 2018 Winner
Target markets: Global
Target clients: Biopharmaceutical companies

Albert Busch, *Head of Marketing*
Email: albert.busch@sfm.de
Telephone: +49 6053 8050
Country: Germany

Business model: Direct sales, contract manufacturing, Compile and package application sets.

FACT SHEET

PRODUCT DESCRIPTION

nextaro® is the quality benchmark for reconstitution of lyophilized pharmaceutical components. With its key advantages being the patented screw system and the optimized handling through the use of two plastic components, nextaro provides the market's best stability, and is suitable for people with ailments or those who are in a hurry. The modular design makes nextaro®customizable to meet the individual requirements of each drug. Top off your high quality application set with the device it deserves.

APPLICATION AREAS

The nextaro® transfer device is used to produce a solution by means of transfer, including filtration of particles out of the ready-to-use injection solution into disposable syringes with a low level of foam formation.

KEY FEATURES (USP)

- Maximum protection from contamination through two integrated filters
- Needle-less system: Plastic spikes with Pencil Point tip. The Pencil Point tip prevents coring (fragmentation of the rubber stopper) when puncturing the septum.
- 2 side openings in the spike direct the solvent flow to the inner surface of the active ingredient vial. Thus, the risk of foam formation is minimised.
- Intuitive operation due to the use of symbols for the solvent and active ingredient side.
- Good haptics thanks to the multi-component injection moulding with TPE overmoulding on the solvent side.
- Pre-centering of the vials upon connection. Due to the inner part's design, the vials are aligned when the transfer device is connected. Thus, a slanted piercing is prevented.
- Latches on the inner part to firmly fix the vials to the transfer system.
- The speed of transfer can be adjusted to the dissolution behaviour of the active ingredient

Website: www.nextaro.com

Product video demo: https://www.nextaro.com/en/

ONEJET

Company name: BIOCORP
Product name: ONEJET
Product type: Drug delivery Device
Development phase: Proof of concept
Honour: Pharmapack Awards 2018 Winner
Target markets: Europe, North America
Target clients: Pharmaceutical companies

Contact person: Eric Dessertenne, COO
Email: edessertenne@biocorp.fr
Telephone: +33 473557050
Country: France

Business model: Out-licencing

FACT SHEET

PRODUCT DESCRIPTION

Onejet is the first motor driven, disposable and Bluetooth connected auto injector compatible with standard primary containers. Its motorization can be adjusted to any biologics density, allowing Onejet to easily deliver highly viscous drugs.

Injection data (time, doses and date) are transferred to a mobile app via Bluetooth, allowing monitoring of key treatment information. Connectivity is made possible thanks to an innovative and effortless pairing system requiring a simple confirmation from patient.

APPLICATION AREAS

Onejet answers an unmet need of pharmaceutical companies requiring an auto injection device flexible enough to deal with different containers and viscosities, starting from the early clinical trials stage. Onejet offers in a single mechanical platform an easy to use device, in a compact design with the advanced functionalities of ''smart'' platforms including motor driven injection system, calibration of injection speed and force, and connectivity.

KEY FEATURES (USP)

Onejet is the first motor driven, disposable and Bluetooth connected auto injector compatible with standard primary containers. It makes it easier for the patient to inject a high viscosity drug thanks to motor-driven injector, and connectivity brings benefits such as knowing that the drug is being injected properly, completely and at the right moment, the right dose.

Website: https://biocorpsys.com/nos-produits/dispositifs-connectes/onejet/

Product video demo: https://vimeo.com/255028384

PERLAMED-BLISTair

Company name: Perlen Converting AG
Product name: PERLAMED-BLISTair
Product type: Drug delivery Device
Development phase: Commercialization
Honour: Pharmapack Awards 2018 Top 10 Innovations
Target markets: Global
Target clients: Pharmaceutical companies

Contact person: Matteo Trisoglio, *Manager business development*
Email: matteo.trisoglio@perlenpackaging.com
Telephone: +41 796239653
Country: Switzerland

Business model: Direct sales, Out-Licencing, Contract Manufacturing. Perlen is offering the complete solution. From development to CMO.

FACT SHEET

PRODUCT DESCRIPTION

By using our core product, a high barrier packaging material, we developed a thermoformed dry powder inhaler. Safe and reliable at lowest costs.

APPLICATION AREAS

- Application areas are: any API that can be inhaled.
- From chronical diseases like asthma to COPD and emergency cases.
- From vaccines to Hormones up to CBD.
- With PERLAMED-BLISTair, it is finally possible to downsize all costs for DPI manufacturing, to an absolute minimum.

KEY FEATURES (USP)

The best advantages on BLISTair are:
- Zero injection moulding
- Zero device assembly
- Zero complex supply chains

Website: https://www.perlenpackaging.com/en/products/perlamedtm-blistair/

Product video demo: https://www.nextaro.com/en/

SelfDose™ Patient-Controlled Injector

Company name:
West Pharmaceutical Services, Inc.
Product name:
SelfDose™ Patient-Controlled Injector
Product type: Drug delivery Device
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2018
Target markets: Global
Target clients: Pharmaceutical companies

Contact person: Deirdre Swinden,
Global Marketing Communications Director
Email: Deirdre.Swinden@westpharma.com
Telephone: +1610-594-3065
Country: United States of America

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

The SelfDose patient-controlled injector is ergonomically designed for optimal patient administration. Patient-centric features include a simple, two-step operation to deliver a subcutaneous injection, as well as audible and visual end-of-dose indicators to confirm successful administration of a prescribed dose. Additionally, a passive safety system covers the needle before and after injection to help prevent needle stick injuries to the patient and caregiver. Extensive human factors studies have been performed with the SelfDose injector, confirming the intuitive design, and supporting its ease of use and patient acceptance.

APPLICATION AREAS

The SelfDose injector is a highly-intuitive delivery systems designed to overcome dexterity challenges through enablement of user-controlled injection. This allows the patient to inject at the preferred rate, or even to pause the injection. A fully passive system, the SelfDose injector has a hidden needle both before and after injection, which may help to reduce patient anxiety.

KEY FEATURES (USP)

The SelfDose injector:
- Accommodates an ISO 1mL long glass syringe
- Facilitates injection of a very wide operating envelope by a single device
- Off-the-shelf availability
- Extremely short time to clinical/market
- Existing capacity
- Manufacturer provided support and guidance with existing materials, such as regulatory technical file, MAF and Human Factors data to support several indications
- Reduces risk thanks to tolerability to glass syringe issues (eg, brittleness,high/inconsistent gliding forces)

Website: https://www.westpharma.com/products/self-injection-platforms/selfdose

Product video demo: https://youtu.be/DXap1RoN_3c

The VOLTAREN®
"No Mess" applicator tube

Company name: GSK / Hoffmann Neopac AG
Product name:
The VOLTAREN® "No Mess" applicator tube
Product type: Primary Packaging
Development phase: Commercialization
Honour: Pharmapack Awards 2018 Winner
Target markets: Europe
Target clients: Pharmaceutical companies

Contact person:
Martina Bracher Sukhachon, *Product Marketing*
Email: martina.bracher@neopac.com
Telephone: +41 317701252
Country: Switzerland

Business model: We produce the tubes for GSK. GSK is filling, sealing and distributing the tubes.

FACT SHEET

PRODUCT DESCRIPTION

The VOLTAREN® "No Mess" applicator is the first applicator on a pain relief product containing an active ingredient. Therefore, it has been designed to avoid overdosing when using it.

Unlike the industry-standard roll-on or sponge applicators which have no intuitive closing system (which could link to overdose during application) the pull/push mechanism allows the cap to close by itself when applying the gel on the skin.

Data from consumer insights revealed that the messiness of applying gel, and the need to wash your hands after each application was a barrier for many consumers who would instead choose a tablet form of pain relief.

To address these unmet needs, we developed a "No Mess" applicator which fits onto the current Voltaren tube and allows consumers to apply the gel without having to touch it – removing the mess and hassle of having to wash your hands after every application.

APPLICATION AREAS

The applicator head surface allows consumers to see exactly how much of the gel they are applying. Additionally, with the tube as handle, the new applicator serves as hand extension and helps consumers reach their back and shoulders more easily (esp. useful for older consumers). The design of the bumps on the applicator give a massage feeling and help the gel penetrate the skin. The design ensures there is no gel residue after application, so it's cleaner and more hygienic than other applicators existing on the market such as roll-ons, sticks or sponges. The applicator has been designed to fit the current Voltaren tube, increasing the speed to market and reducing disruption to our existing supply chain and manufacturing process.

Website: https://www.neopac.com

KEY FEATURES (USP)

- The VOLTAREN® "No Mess" applicator is the first applicator designed to avoid overdosing
- Pull/push mechanism allows the cap to close by itself when applying the gel on the skin
- The applicator head surface allows consumers to see exactly how much of the gel they are applying.
- The applicator design minimizes gel residue after application and offers cleaner and more hygienic applications than existing solutions on the market.
- The tube serves as a handle to reach the back and shoulders more easily
- The TopStar™ on the tube head guarantees first-opening to the consumers
- The applicator can be removed quickly and easily thanks to the "quick-thread" of the tube

INNOVATION
BOOKLET

2017

Compliance Pack

Company name: August Faller GmbH & Co. KG
Product name: Compliance Pack
Product type: Secondary Packaging
Development phase: Prototype
Honour: Pharmapack Awards 2017 winner
Target markets: Europe
Target clients: Pharmaceutical companies

Contact person:
Charis Bayer, *Expert Marketing Communication*
Email: charis.bayer@august-faller.com
Telephone: +49 7681405264
Country: Germany

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

The Faller Pharma Compliance Pack is an initial prototype and was specially developed to make it easier for the patient to take tablets. Thanks to a design integrated into the packaging as guidance for taking the tablets, the patient is assisted to take these at the right time and in the specified order, as is correct and important for his treatment. By intentionally tearing off the perforated tabs, the blister pack can only be pulled out in "portions" and thus only frees up the tablets intended for this medication period. With the aid of the novel 5-page Faller Leporello label, the patient also gains easy access to all relevant information or descriptions relating to intake or safety information using text, images or pictograms. The label also has removable partial labels, which can be affixed as a reminder on a calendar or in a patient file.

APPLICATION AREAS

The Faller Pharma Compliance Pack is particularly well-suited to support self-medication and can be optimally used in clinical trials, in hospitals or wherever patients can be helped more quickly to follow individual therapy that suits them (personalised medicine). In order to make it easier for patients to take their medication correctly, a mechanical sliding solution is integrated on the Faller Pharma Compliance Pack.

KEY FEATURES (USP)

Until now, the recommendations for taking medication are mostly only noted in small print on a leaflet or on the packaging itself. Thanks to the mechanical sliding solution of the Compliance Pack, the patient is guided in taking his medication and thus correct intake is ensured.

The Leporello label also offers a great deal of space for information. Removable partial labels are integrated into the label itself for appointment reminders in calendars or for documentation in patient files. Variable data, e.g. for serialisation, can be printed onto the label on the packaging. The packaging is relatively flexible in the selection of material, shape and size and is ideal for multi-packs.

Website: https://www.august-faller.com/de/lp_pharma-compliance-pack.html

Intuity® Ject

Company name: EVEON
Product name: Intuity® Ject
Product type: Drug delivery Device
Development phase: Prototype
Honour: Pharmapack Awards 2017 winner
Target markets: North America, Europe
Target clients: Pharmaceutical companies

Contact person:
Charlotte Reverand, *Communications Officer*
Email: cre@eveon.eu
Telephone: +33 476448417
Country: France

Business model:
Contract Manufacturing

FACT SHEET

PRODUCT DESCRIPTION

Intuity® Ject offers a unique, secure, automated alternative for the simple, precise preparation and injection of drugs, in only 5 steps. This medical device is particularly intended for all biological products in vials, including viscous products, both in liquid and dry form, for subcutaneous or intramuscular injection. Another version of the device for intravenous injection is also being developed as part of a customer project.

APPLICATION AREAS

Patients affected by chronic disease, infectious diseases, or even cancers may benefit from this innovation. These drugs require many manipulations before being delivered. EVEON enables and facilitates the treatment with these drugs using intuitive and modular solutions packaged in industry standard primary containers, vials or cartridges.

KEY FEATURES (USP)

Intuity® Ject offers an "all-in-one" solution for simple formulation as well as the injection of biologics from a vial. It simplifies the number of components and steps for the users. It makes reliable reconstitution and injection triggered by a simple button click. It injects viscous drugs up to 100cps without effort for the user. It guaranties a very precise dosage from a few μl up to several ml. It is silicone-free to avoid interaction with biologics.

Intuity® Ject comes in several functionality variants such as multivial injection to adapt the total dose to each patient, lyo or liquid drugs versions, digital and connectivity features such as data tracking, calendar compliance, data sharing, alarm and recall.

Website: https://www.eveon.eu/en/solutions-and-services/intuity-platform-ject
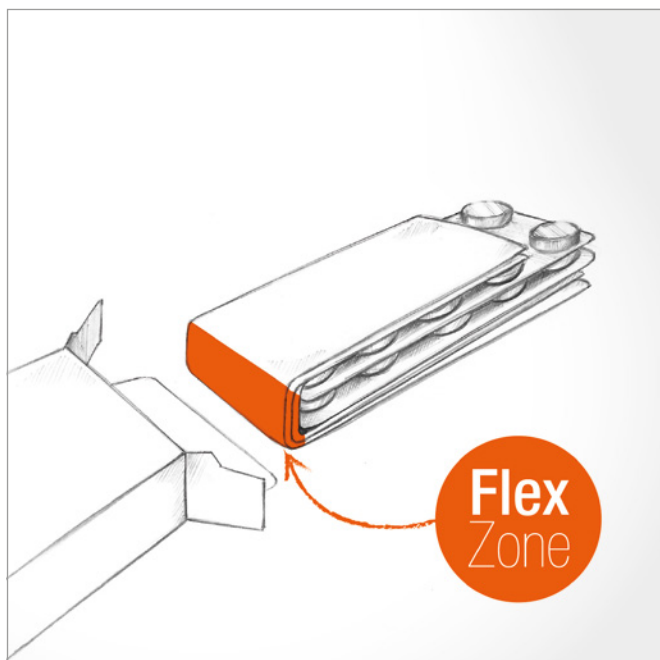
LEAFLEX

Flex
Zone

Company name: GROUPE TONNELLIER
Product name: LEAFLEX
Product type: Secondary Packaging
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2017
Target markets: Europe, North Africa
Target clients: Pharmaceutical companies

Contact person:
Helene Duquesne, *Export Sales*
Email: hduquesne@groupe-tonnellier.com
Telephone: +33 689497539
Country: France

FACT SHEET

PRODUCT DESCRIPTION

LEAFLEX: BOX INSERTION MADE EASY!

LEAFLEX is a large leaflet featuring a flexible zone to facilitate its insertion with the product (blister, bottle etc) into the box: in this zone the thickness of the leaflet is significantly reduced, thanks to its innovative folding. This is the Flex Zone.

LEAFLEX' high flexibility greatly improves productivity and drastically reduces make-ready times on packaging lines.

APPLICATION AREAS

Patient information leaflets require an increased printing surface. As a consequence, they are larger and therefore thicker and more rigid once they are folded. This trend in leaflets' new profile is the source of numerous technical issues related to packaging:
• frequent disruptions on packaging lines: lines stop as leaflets cannot enter the box
• the product (blister…) can be damaged when it pushes the leaflet

Problem: all these technical difficulties have a direct negative impact on productivity and quality performance! In order to address these issues, Tonnellier Group developed LEAFLEX, a very large leaflet which is extremely easy to insert into the box.

How is it possible? What is the Flex Zone?

LEAFLEX is a large leaflet featuring a flexible zone to facilitate its insertion with the product (blister, bottle etc) into the box: in this zone the thickness of the leaflet is significantly reduced, thanks to its innovative folding. This is the Flex Zone.

KEY FEATURES (USP)

• adjustable and customizable: the flexible zone's dimensions and position on the leaflet are determined by the specifications of the product and the box
• available in several leaflet types: reel-fed, pre-folded, folded, outset
• patented

Website: www.groupe-tonnellier.com

Product video demo: https://youtu.be/M6zVdPvMq9g

NFCap "The cap that talks to your customer"

Company name: KISICO GmbH
Product name:
NFCap "The cap that talks to your customer"
Product type: Primary Packaging
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2017
Target markets: Global
Target clients: Pharmaceutical companies

Contact person:
Clemens Boerner, *Technical Sales Manager*
Email: clemens.boerner@kisico.de
Telephone: +49 672399650
Country: Germany

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

KISICO presents an intelligent cap. This innovative cap features an NFC-Chip that is fully integrated in the cap, tamper-free and invisible from the outside.

The revolutionary NFCap permits contactless communication with every NFC-enabled smartphone. Practically every modern smartphone has an NFC reader. For those without the NFC feature there are suitable add-ons available.

APPLICATION AREAS

A wide array of information can be stored on the chip. Relevant applications can be used to verify the authenticity of the product. In addition, technology-savvy audiences will use this communication opportunity between product cap and smartphone to access information stored on the chip such as links to websites, product specifications or other specifically developed apps.

KEY FEATURES (USP)

NFC technology can be integrated into most of the KISICO standard products so no further costs for new injection moulding tools or tool adjustments arise. Since the chip is not visible from the outside, the caps retain their design. The chip never comes in contact with the bottle contents.

Website: https://www.kisico.de/die-revolutionaere-nfcap/?lang=en

perfeXion® – The New Era of Quality Processing for FIOLAX® glass tubing

Company name: SCHOTT AG (Tubing)

Product name: perfeXion® – The New Era of Quality Processing for FIOLAX® glass tubing

Product type: Primary Packaging

Development phase: Commercialization

Honour: Pharmapack Innovation Gallery 2017

Target markets: Global

Target clients: Pharmaceutical companies

Contact person: Dr. Folker Steden, *Director Product Management & Scientific Service*

Email: folker.steden@schott.com

Telephone: +49 963380253

Country: Germany

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

In quality control, details matter. When it comes to pharmaceutical primary packaging such as vials, cartridges or syringes, fluctuations in tubing dimensions such as the inner diameter or wall thickness can have a significant impact on the container performance – for instance, the filling or dosing accuracy for high potential drugs. Up until now, manufacturers of glass tubing have usually been monitoring quality parameters on a random sample base. SCHOTT, however, has developed a new production quality process called perfeXion®. perfeXion® stands for the transition from statistical quality control to 100 % inspection of each individual FIOLAX® tube. Various interacting online inspection devices, in combination with integrated data collection and data analysis, allow quality parameters of the original tube to be adapted to the container format (syringe, cartridge, vial or ampoule) and customer specification. With this, SCHOTT aims to contributing to patients' safety from the very beginning of the value chain.

APPLICATION AREAS

The perfeXion® technology is implemented for the production of pharmaceutical glass tubing FIOLAX® which is afterwards converted into syringes, cartridges, vials and ampoules. It adds value especially in the following three areas:

1. perfeXion® enables more precise geometry:

Thightly-toleranced inner diameters of the original tube not only support a constant gliding force but can also enhance dosing accuracy, in particular for highly concentrated injectable substances in multi-dose devices.

2. perfeXion® facilitates superior cosmetic quality:

The seamless cosmetic inspection of each individual glass tube over its entire length reduces yield loss in camera-controlled primary packaging production as well as at the end of the value chain at the visual inspection of the filled container.

3. perfeXion® is based on figures, data and facts:

During the tubing production process, online process- and product-quality data are collected in real-time and transmitted to an industry-standard data-management system (PI database). This enables downstream post-processing steps to be efficiently aligned with the tubing quality.

KEY FEATURES (USP)

perfeXion® stands for the transition from statistical quality control to 100 % inspection of each individual FIOLAX® tube. Various interacting online inspection devices, in combination with integrated data collection and data analysis, allow quality parameters of the original tube to be adapted to the container format (syringe, cartridge, vial or ampoule) and customer specification.

perfeXion® is not a product but as a process it now allows us to continuously optimize and measure quality and therefore help to improve patient safety through additional consequent track and trace possibilities, to stabilize processes and thereby broaden our ability to customize tubing to customer specific needs.

Website: www.schott.com/perfexion

Product video demo: www.schott.com/perfexion

Safelia®

FACT SHEET

Company name: NEMERA
Product name: Safelia®
Product type: Drug delivery Device
Development phase: Prototype
Honour: Pharmapack Awards 2017 winner
Target markets: Global
Target clients: Biopharmaceutical companies

Contact person: Séverine Duband, *Global Category manager – Parenteral*
Email: information@nemera.net
Telephone: +33 474940654
Country: France

Business model: Direct sales

PRODUCT DESCRIPTION

To optimize patient comfort, Nemera has designed the award-winning Safelia® two-step autoinjector. Safelia® works by the patient simply removing the rigid needle shield and applying the autoinjector to the skin, with a single click signalling proper needle insertion at the start of injection and a second click to signal complete delivery at the end of injection (Figure 2). Safelia® is compatible with 1 mL and 2.25 mL prefilled syringes, is able to deliver extremely viscous (>100 Cp) formulations and is highly customizable to the formulation and the patient requirements. Safelia® has been designed to optimize patients' self-injection experience whilst allowing for tailoring of the injection to deliver even the most challenging drugs.

APPLICATION AREAS

A growing trend we are seeing on the market today is the development of protein-based biological formulations. One characteristic of these new drugs is that they present higher viscosity, many of which are designed to be injected in larger volumes. A second characteristic is that they are fragile formulations, therefore injection process shall respect drug integrity.

Another consideration is the development of sustained released formulations (also highly viscous) as an alternative to multiple injections. With sustained released formulations, the patient is required to perform fewer injections, a factor that can greatly improve patient experience and facilitate adherence to long-term treatments.

Several factors are known to contribute to the pain perception of the patient during the injection. These include the choice of the injection site, speed and depth of injection, temperature, viscosity, and pH of the active pharmaceutical ingredient, needle gauge (large diameter needles), and dose volume. Nemera's innovative platform of autoinjectors meets all of these challenges.

KEY FEATURES (USP)

What makes Safelia® different from other autoinjectors?
• **A powerful engine** – To deliver viscous formulations through thinner needles in 15 seconds or less.
• **Limits the risk of glass breakage** – Force transmitted on the syringe shoulder instead of the flange.
• **Delivery of the right dose at the right depth** – Disconnection between the needle insertion and the injection.
• **Thinner needles for patient comfort** – Reduced needle gauge and tailored needle insertion and injection speed.
• **Safety** – The needle is never exposed throughout automatic needle insertion, delivery and needle retraction.
• **Ergonomic and easy to handle** – for optimal patient comfort.

Website: https://www.nemera.net/products/parenteral/safelia/

Product video demo: https://www.youtube.com/watch?v=Y1mZGmv9yQ4&t=3s

Stylo™ Bristle

Company name: NEOPAC THE TUBE
Product name: Stylo™ Bristle
Product type: Primary Packaging
Development phase: Commercialization
Honour: Pharmapack Innovation Gallery 2017
Target markets: Global
Target clients: Pharmaceutical companies

Contact person: Martina Christiansen, *Head Sales Pharma*
Email: info@neopac.com
Telephone: +41 317701111
Country: Switzerland

Business model: Direct sales

FACT SHEET

PRODUCT DESCRIPTION

The Stylo™ Bristle tube rewrites your product's success story. The Bristle applicator softly strokes the skin and applies liquid and semi-solid skincare products easily and precisely. The anti-slip ring ensures correct discharge and protects the product. Users intuitively understand how the ring works thanks to the arrow pictogram. The cone-shaped cap protects the applicator. Start a new product story with Stylo™ Bristle.

APPLICATION AREAS

Concealers/lotions, Nail care, Eyebrow care, Acne cream, Disinfectant solutions, Scar care, Mouth and teeth products

KEY FEATURES (USP)

Stylo™ Bristle is new, innovative and consumer friendly. Application with the Stylo™ Bristle applicator is precise, soft and sterile due to the sterilized bristles.

The product is prevented from leakage with the on-off function of the turning ring on the tube head. The tube body is made of Polyfoil® high barrier laminate.

Our new Stylo™ Bristle tube enhances the product's image with outstanding convenience, quality, safety and aesthetics.

Website: www.neopac.com/stylo

Pharmapack
Drug Delivery & Packaging

INNOVATION • NETWORKING • EDUCATION

EXHIBITION & CONFERENCE 5-6 FEBRUARY 2020 PARIS EXPO, PORTE DE VERSAILLES, HALL 7.2

Pharma's dedicated packaging and drug delivery event

INNOVATION
- Innovation Gallery
- Innovation Tours
- Pharmapack Awards
- Start-up Hub and Pitch

NETWORKING
- Networking areas
- Match & Meet Programme

EDUCATION
- Conference
- Workshops
- Learning Lab

5,495 attendees

400+ exhibitors

400+ delegates

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