2020 PDA UNIVERSE OF PRE-FILLED SYRINGES AND INJECTION DEVICES

EXHIBITOR BUYER’S GUIDE
2020 EXHIBITS COMMITTEE

This Buyer’s Guide is designed to help you maximize your virtual 2020 PDA Universe of Pre-Filled Syringes and Injection Devices experience. Use the Agenda-at-a-Glance (pg. 6) and Tech Talk schedule (pg. 8) to build your own Conference itinerary. The Exhibitor Abstracts and listing of Exhibitors by categories of product and service offerings will make it easier for you to navigate the virtual Exhibit Hall and to select those Exhibitors with which you want to connect.

We have developed this first-ever virtual PDA Universe of Pre-Filled Syringes and Injection Devices to ensure it delivers the same high-quality content, premier attendee experience, and community-focused networking opportunities you have come to expect. With superior content from thought leaders and plenty of opportunities to connect with peers from all over the world, this remains the premier Conference in the field of drug delivery device development and manufacturing.
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SHL’s Molly® autoinjector is built upon a robust preconfigured technology designed to support shorter development timelines.

SHL Medical is a world-leading designer, developer, and manufacturer of drug delivery devices such as autoinjectors and pen injectors. We work with pharma and biotech companies to develop reusable and disposable injectors that can accommodate various volumes and viscosities, as well as connected technologies for next-generation healthcare.

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with a global leader in prefillable delivery systems. BD partners closely with leading pharmaceutical companies to support their success from drug development to launch and beyond. With a broad portfolio of innovative drug delivery systems, a global perspective and regulatory insights, a BD Medical–Pharmaceutical Systems team can partner with you to match the optimal solutions to your product. In addition to prefillable syringes, our technologies include self-injection systems, safety and shielding solutions—which we can customize and develop to meet your precise technical requirements and the demands of your business. You can also count on our depth of regulatory knowledge, product development, medical expertise and responsive support. Discover the confidence of working with the right partner. Discover the difference of BD.

Learn more about the Difference of One at drugdeliverysystems.bd.com

BD Medical – Pharmaceutical Systems provides high-quality, customized, clinically proven drug delivery systems to help pharmaceutical and biotechnology customers’ injectable drugs reach their full potential. BD offers a range of products, including glass and plastic prefillable syringes, and a variety of systems for the self-administration of injectables. With a broad range of innovative systems and services, BD provides pharmaceutical companies with support and resources to help them achieve their goals.

www.bd.com
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App sponsored by: SHL MEDICAL
AGENDA-AT-A-GLANCE

* See next page for Tech Talk Schedule

**MONDAY OCTOBER 5**
8:00 a.m. – 10:00 a.m.
Attendee Engagement – Braindates
10:00 a.m. – 11:00 a.m.
Welcome/Opening Remarks and P1: Opening Plenary
11:00 a.m. – 11:15 a.m.
Break & Tech Talk
11:15 p.m. – 12:15 p.m.
Concurrent Sessions & Tech Talks
A1: Integrated Device Development/Holistic Development Strategies
B1: Manufacturing Science
C1: Sustainability
12:15 p.m. – 2:30 p.m.
Attendee Engagement
Exhibit Hall
Poster Presentations
Networking and Braindates
Tech Talks

**TUESDAY OCTOBER 6**
8:00 a.m. – 10:00 a.m.
Attendee Engagement – Braindates
10:00 a.m. – 11:00 a.m.
P2: Regulatory
11:00 a.m. – 11:15 a.m.
Break & Tech Talk
11:15 p.m. – 12:15 p.m.
Concurrent Sessions & Tech Talks
A2: Combination Product Design Control
B2: Industry Standards and Trends
C2: Emerging Technologies
12:15 p.m. – 2:30 p.m.
Attendee Engagement
Exhibit Hall
Poster Presentations
Networking and Braindates
Tech Talks

**WEDNESDAY OCTOBER 7**
8:00 a.m. – 10:00 a.m.
Attendee Engagement – Braindates
10:00 a.m. – 11:00 a.m.
P3: Creativity and Flexibility: Essential Elements in Combination Product Development
11:00 a.m. – 11:15 a.m.
Break & Tech Talk
11:15 p.m. – 12:15 p.m.
Concurrent Sessions & Tech Talks
A3: Technical Challenges and Hot Topics
B3: Clinical Study Approaches and Outcomes
C3: Digitalization
12:15 p.m. – 2:30 p.m.
Attendee Engagement
Exhibit Hall
Poster Presentations
Networking and Braindates
Tech Talks

**THURSDAY OCTOBER 8**
8:00 a.m. – 10:00 a.m.
Attendee Engagement – Braindates
10:00 a.m. – 11:00 a.m.
P4: Innovation
11:00 a.m. – 11:15 a.m.
Break & Tech Talk
11:15 p.m. – 12:15 p.m.
Concurrent Sessions & Tech Talks
A4: Life Cycle Management
B4: Patient Preference
C4: Patient Centric Design – Innovation Perspective
12:15 p.m. – 2:30 p.m.
Attendee Engagement
Exhibit Hall
Poster Presentations
Networking and Braindates
Tech Talks

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Ypsomed is the leading independent developer and manufacturer of innovative self-injection systems. The customizable and proven platform products include mechanical and connected autoinjectors for pre-filled syringes in 1 mL and 2.25 mL, pre-filled patch injectors for 2-10mL, and multi-dose pens. Ypsomed provides its partners with technological expertise and regulatory support.

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## TECH TALK SCHEDULE

### MONDAY, OCTOBER 5

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker/Company</th>
<th>Presentation Title</th>
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| 11:00 a.m. − 11:15 a.m. | **BD Medical – Pharmaceutical Systems**  
Christian Sandmann, R&D Associate Director | **Addressing the Evolving Needs of Complex or Variable Drug Delivery Regimens**  
Faced with a changing healthcare landscape and transition of care out of traditional clinical settings, delivery technologies that enable patient treatments at home are increasingly attractive. Designed as a programmable system capable of continuous, episodic, or delayed subcutaneous delivery of up to 3 mL for up to 3 days, BD Evolve™ On-body Injector may facilitate at-home medication delivery. |
| 11:15 a.m. − 11:25 a.m. | **Ypsomed**  
Ian Thompson, Vice President Business Development, Delivery Systems/ Innovation and Business Development Manager | **Ypsomed Platform Update**  
Ypsomed’s PDA Tech Talk summarizes the latest platform developments, including new product approvals such as YpsoMate 2.25 for Teva’s Ajovy. It also covers a first introduction to SmartPilot for UnoPen and provides updates on SmartPilot for YpsoMate and the pre-filled preassembled YpsoDose patch injector clinical program. |
| 11:25 a.m. − 11:35 a.m. | **Terumo Pharmaceutical Solutions**  
Philippe Lauwers, Director Technology Development | **Polymer-Based Pre-fillable Syringes Designed to Minimize the Aggregation Risk of Sensitive Biodrugs**  
With the rise of large molecules comes the challenge of mitigating the risk of pre-fillable syringe (PFS) components adversely interacting with sensitive biodrugs. In this presentation, Philippe Lauwers, Director Technology Development at Terumo Pharmaceutical Solutions, will explain how PLAJEX can mitigate some of these technical challenges. The audience will learn how a silicone oil-free, tungsten-free polymer PFS can eliminate the risk of protein aggregation and protein oxidation through a system approach. Selecting the appropriate materials as well as sterilization method will further help to build a low-extractable syringe system. |
| 11:35 a.m. − 11:45 a.m. | **West**  
Christa Jansen-Otten, Director, Product Management, Prefilled Systems and Delivery | **Prefilled Syringe Elastomer Components – High-Quality Solutions for Sensitive Molecules**  
Increasing demands on quality, stringent regulations, trends toward home care treatments by using innovative device technology, and the development of specialized, high-value treatments present challenges to companies looking for unique solutions. We will discuss a new elastomer component leading with innovation excellence that was developed to address the ever-increasing demands and challenges of the pharmaceutical industry driven toward components being essentially free of particulate and meeting customer demand for consistency by assuring dimensional stability. |
### Monday, October 5 (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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<tr>
<td>11:50 a.m. – 12:05 p.m.</td>
<td><strong>Stevanato Group</strong>&lt;br&gt;Tod Urquhart, Core Team Lead&lt;br&gt;&lt;br&gt;<strong>Driving Production Efficiency and Quality in Manufacturing through Container Traceability</strong>&lt;br&gt;Traceability at the individual container level can drive quality and production efficiency by preventing product mix-up and improvements in machine utilization, thanks to collected data about rejections. This presentation will discuss the approach, process steps, and initial test results of how these improvements can be achieved today.</td>
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<tr>
<td>12:05 p.m. – 12:15 p.m.</td>
<td><strong>Accumold</strong>&lt;br&gt;Aaron Johnson, Vice President of Marketing and Customer Strategy&lt;br&gt;&lt;br&gt;<strong>The Shrinking World – The Enabling Benefits of Micro Molding</strong>&lt;br&gt;With the pressure on design engineers to deliver smaller, lighter, and more cost-effective components, many are turning to micro injection molding for support. Through a series of case studies, this presentation will explore the advantages micro injection molding can provide. Case study examples include: pushing the limits with size, high-volume with high-quality, and an exploration of overmolded/insert molded components (including metal, mesh, fabric, glass and other fine media).</td>
</tr>
<tr>
<td>1:00 p.m. – 1:10 p.m.</td>
<td><strong>ZEON</strong>&lt;br&gt;Larry Atupem, Sr. Business Development Specialist&lt;br&gt;&lt;br&gt;<strong>Technical Data Update ZEONEX® and ZEONOR® for Pre-filled Syringes Cyclo Olefin Polymer (COP) for Pre-Filled Syringe</strong>&lt;br&gt;ZEON’s Zeonex® and Zeonor® cyclo olefin polymer (COP) allow for advanced, break-resistant syringes, vials, and lyophilization containers for protein-based biopharmaceuticals, high viscosity drugs, and contrast media. The case studies highlight the advantages of Zeonex® and Zeonor® cyclo olefin polymer (COP) used for Pre-filled Syringes.</td>
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<tr>
<td>1:10 p.m. – 1:20 p.m.</td>
<td><strong>Sorrel</strong>&lt;br&gt;Dr. Andrei Yosef, CEO&lt;br&gt;&lt;br&gt;<strong>Shortening Time to Market with Sorrel’s Wearable Drug Delivery Platform</strong>&lt;br&gt;Dr. Andrei Yosef, Sorrel Medical’s CEO, will speak about how the Sorrel wearable drug delivery platform can be used to de-risk the development process and shorten timelines to clinical and commercial readiness. Leveraging the platform design approach and using both vial and cartridge based devices, ensures fast time to market with Sorrel's pre-filled and pre-loaded device configurations.</td>
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**MONDAY, OCTOBER 5 (CONTINUED)**

**1:20 p.m. – 1:40 p.m.**

**Catalent**
**Pam Barton**, Sr. Manager, Manufacturing Technology

**The Faster Path to Self-Administration: Moving from Pre-Filled Syringe to Auto-Injector**
As a pharma company looks to make the transition from a traditional pre-filled syringe (PFS) to an auto-injector, they may heavily rely on the experience of their manufacturing partner. It's imperative that the two companies work together to meet product, device, quality, manufacturing, and packaging requirements. When experienced partners understand lifecycle management and anticipate equipment and process needs, the product can be transitioned from PFS to auto-injector more quickly. In this webinar, we will share:
- How product characteristics and formulation determine the type of auto-injector best suited for your product
- How the chosen auto-injector affects manufacturing and packaging of the finished product
- What quality considerations are necessary as a product transitions to auto-injector
- How the above coupled with integrated PFS manufacturing and auto-injector assembly can create an accelerated timeline to market

**1:40 p.m. – 1:50 p.m.**

**Schreiner MediPharm**
**Christian Liebl**, Senior Innovations and Process Manager

**Enhancing COC Syringes with Functional Labels**
Injection-molded syringes made out of COC are offering a lot of advantages. Schreiner Medipharm developed customized label solutions to further enhance the special characteristics of these primary containers by added functionalities.

**TUESDAY, OCTOBER 6**

**11:00 a.m. – 11:15 a.m.**

**SHL Medical**
**Josh Gonzalez**, Chief Commercial Officer

**Customizing Platform Devices: A Review of Molly’s Flexible Design and Development Model**
Design constraints in platform-based devices often pose challenges to customization requests for drug, branding, or usability purposes. SHL’s Molly® autoinjector is built upon a modular platform where integral front and rear subassembly components form a robust core technology that enables an appreciable level of freedom for design customization and manufacturing scalability, all the while maintaining the benefits associated with platform device models.

**11:15 a.m. – 11:25 a.m.**

**DCA Design Group**
**Malcolm Boyd**, Senior Sector Manager, Medical and Scientific

**It’s All Connected – Some Key Challenges and Opportunities in Development of Connected Drug Delivery Devices**
Following a roundtable discussion with senior members of DCA's medical, human factors, electronics hardware, and software teams, this short talk summarizes key challenges and opportunities in the development of effective connected drug delivery devices. The talk focuses on deciding what a connected drug delivery device should do, designing for a coin cell, direct cellular connection, and antenna design.
### TUESDAY, OCTOBER 6 (CONTINUED)

<table>
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<tr>
<th>Time</th>
<th>Speaker</th>
<th>Company</th>
<th>Title</th>
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| 11:25 a.m. – 11:35 a.m. | **Vetter Pharma**         | Ute Schleyer, PhD, Project Manager Site and Plant Development | **Holistic Cleanroom Concept: Reaching Higher Quality and Greater Flexibility**  
Pharmaceutical service provider will require increased flexibility and face more stringent requirements for microbial and particulate contamination control. Consequently, this will increase the demand for production technologies that can meet the stringent quality and safety requirements as well as sufficient built-in versatility to anticipate future format, packaging, and manufacturing needs. New approaches like Vetter's V-CRT® create manufacturing processes that meet the ever-evolving demands of the world's dynamic healthcare market. |
| 11:35 a.m. – 11:45 a.m. | **Syntegon**             | Michael Kerbaugh, Regional Sales Manager | **Key Considerations for Automated Visual Inspection of Pre-Filled Syringes**  
This Tech Talk explores the technical aspects of Automated Visual Inspection of Pre-Filled syringes. Key considerations learned from more than 40 years of automated visual inspection equipment manufacturing are discussed. A preview into Advanced Visual Inspection techniques, including application of AI (deep learning) is provided, along with a description of a fully integrated line layout with the option of no glass to glass contact for a modern inspection line. |
| 11:55 a.m. – 12:05 p.m. | **Mitsubishi Gas Company** | Tomohiro Suzuki, Associate General Manager | **OXYCAPT Multilayer Plastic Vial & Syringe with Excellent Oxygen and UV Barrier**  
MGC will show some basic and latest data of OXYCAPT Multilayer Plastic Vial and Syringe. |
| 1:00 p.m. – 1:10 p.m.  | **Schreiner MediPharm**   | Christian Liebl, Senior Innovations and Process Manager | **RFID-Based Smart Labeling Solutions for Injection Devices: Benefits and Challenges in Real-World Applications**  
Connectivity is an exciting megatrend when it comes to parenteral drug delivery systems. How can label-integrated RFID chips withstand the challenging conditions during pharmaceutical manufacturing processes to ensure reliable functionality? Join us to explore our unique solution and real-life applications. |
| 1:10 p.m. – 1:20 p.m.  | **Flex**                  | Yossef Schvetz, Director, Industrial Design and Innovation | **Creating Connectivity Modules to Enable Low-Cost Smart Syringes**  
In-depth analysis of a smart Pre-Filled Syringe Platform, weighing the benefits of reliable data against the challenges related to renovating a well-consolidated drug delivery system. Includes how to develop an add-on connectivity module adaptable to existing PFSs, analyzing the challenges and proposed associated technological solutions. |
**WEDNESDAY, OCTOBER 7**

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<th>Time</th>
<th>Company</th>
<th>Name</th>
<th>Presentation Title</th>
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| 11:00 a.m. – 11:15 a.m. | **Stevanato Group** | Paolo Golfetto, Business Development Drug Delivery Systems Director | **Emergency Auto-Injectors: The Role of an Integrated Approach from Design to Final Device Assembly**  
In emergency situations, administering medications with an easy-to-use and safe auto-injector is critical. The perfect emergency auto-injector must incorporate enough fail-safe features to prevent any possible misuse or loss of a life-saving dose. Reliability of device functionality is also key in delivering the intended dose: this can only be achieved with controlled Manufacturing and Assembling Process capabilities. The exclusive Partnership between Stevanato Group and Duoject streamlines the auto-injector supply chain under one point of contact, coordinating from the optimization of the glass container to injection molding and final device assembly. |
| 11:35 a.m. – 11:45 a.m. | **Syntegon**     | Laura Moody, PhD, Product Manager Primary Packaging, North America | **Fill/Finish of Syringes for Aseptic and High-Potent Applications**  
Syntegon has fill/finish technology that can address the demands of syringe filling for both aseptic and cytotoxic products. This presentation will discuss final fill solutions for nested syringes under a variety of product-specific conditions. |
| 11:55 a.m. – 12:05 p.m. | **Aptar Pharma** | Audrey Chardonnet, Director, Global Strategic Customer | **Innovation in PFS components for Biotech and Associated Services**  
Development of biologics products in PFS may present its own set of challenges. With a focus on PFS components, Aptar will discuss PFS platform for biotech developed to address auto-injector challenges, ensure drug stability, traceability, and answer viscous drug injection, as well as services offered to de-risk and accelerate biotech projects. |
### THURSDAY, OCTOBER 8

<table>
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<th>Time</th>
<th>Presentation</th>
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| 11:00 a.m. – 11:15 a.m. | **Team Consulting**  
**Chris Hulstone,** Director of Engineering  
**Systems Engineering Approaches for Injection Device Development**  
Medical devices can be thought of as Systems. This presentation will provide a high-level overview of the principles of Systems Engineering, and highlight the benefits of applying them to the development of injection devices. |
| 11:15 a.m. – 11:25 a.m. | **Portal Instruments**  
**Bart Burgess,** Associate Vice-President Product Management and Strategy  
**Portal Instruments – Next-Generation Needle-Free Injections**  
With two major pharmaceutical relationships, Portal is diligently focused on final development of their next-generation needle-free injector. Bart will share Portal’s recent milestones and how Portal’s drug delivery platform can radically change the patient experience of self-administered subcutaneous injections. |
THANK YOU TO OUR SPONSORS!

PDA extends a special thank you to the following companies for their generous support of the 2020 PDA Universe of Pre-Filled Syringes and Injection Devices:

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COMPANY ABSTRACTS

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Aptar Pharma is a leading provider of innovative drug delivery systems to pharmaceutical, consumer healthcare, and biotech customers worldwide, enabling safe, convenient, and compliant medication delivery. A trusted partner of the pharmaceutical community, we provide our customers with a large range of specialized drug delivery devices, components, active packaging solutions, analytical services, and regulatory support backed by decades of proven expertise. We have broad therapeutic expertise in Nasal, Pulmonary, Injectables, Eye Care, and Dermal Delivery Routes, among others. With a strong focus on innovation, we are leading the way in developing connected devices to deliver digital medicines. Our global manufacturing footprint of sites in Argentina, China, France, Germany, India, Switzerland, Russia, and the U.S. provides security of supply and local support to our customers.

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- Contract Manufacturing and Research (Formulation, Filling, Assembly, Packaging, Labeling, Sterilization)
- Design Services

CONTAINER AND DEVICE PLATFORMS
- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)
- Digital Technologies (Bluetooth/NFC Enabled Devices, Apps, etc.)
- Finished Handheld Injectors (Auto-injectors; Pen Injectors, Prefilled Syringes, Safety PFS, etc.)
- On-body Injectors (Patch Pumps, Large Volume Injectors)

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SERVICES/PARTNERING
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- Design Services
- HF Services (Design and Testing, including Validation)
- Testing Services

CONTAINER AND DEVICE PLATFORMS
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- On-body Injectors (Patch Pumps, Large Volume Injectors)

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Bespak by Recipharm delivers market leading design, development, and manufacture of drug delivery devices to the global pharmaceutical market. Driven by customer and patient demand, our innovations have the potential to create new treatments and opportunities across the globe as well as accelerating routes to market.

SERVICES/PARTNERING
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- Design Services
- HF Services (Design and Testing, including Validation)

CONTAINER AND DEVICE PLATFORMS
- Finished Handheld Injectors (Auto-injectors; Pen Injectors, Prefilled syringes, Safety PFS, etc.)
- On-body Injectors (Patch Pumps, Large Volume Injectors)
BIOCORP
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For 25 years, BIOCORP has been developing and producing medical devices for the pharmaceutical industry, enhancing drug reconstitution, packaging, and delivery. Recognized for its expertise in device R&D, BIOCORP has incorporated software development capacities to offer connected drug delivery systems in order to meet the evolving needs of patients and improve treatment adherence.

CONTAINER AND DEVICE PLATFORMS

- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)
- Digital Technologies (Bluetooth/NFC Enabled Devices, Apps, etc.)
- Finished Handheld Injectors (Auto-injectors; Pen Injectors, Prefilled Syringes, Safety PFS, etc.)

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CONTAINER AND DEVICE PLATFORMS

- Finished Handheld Injectors (Auto-injectors; Pen Injectors, Prefilled Syringes, Safety PFS, etc.)

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Catalent’s specialized sterile technology offerings provide expertise in process design and scale-up, sterility assurance, validation, and regulatory support for respiratory products, ophthalmics, vaccines, and virtually any liquid, sterile dose form, across both small and large molecule compounds. Combining extensive drug and biologic manufacturing capabilities, comprehensive analytical services, and filling and packaging expertise, Catalent offers customized options for each of its customers’ programs, and helps to ensure reliable supply to global markets.

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- Contract Manufacturing and Research (Formulation, Filling, Assembly, Packaging, Labeling, Sterilization)

CONTAINER AND DEVICE PLATFORMS

- Finished Handheld Injectors (Auto-injectors; Pen Injectors, Prefilled Syringes, Safety PFS, etc.)
**CONGRUENCE MEDICAL SOLUTIONS, LLC**  
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Tel: (216) 272-5521  
www.congruencemed.com  

Congruence Medical Solutions is pioneering design, development and supply of accurate, precise microliter dosing device systems for applications in ophthalmology, neurology, oncology and dermatology. These devices incorporate a standard prefillable syringe, enabling accurate, precise delivery with standard closure components. The devices have demonstrated accuracy and precision for dose volumes as low as 5 microliters using a 1mL long prefillable syringe. These microliter dosing device platforms can be customized depending on the application. Incorporated in 2015, Congruence Medical Solutions has completed development of the base Microliter Dosing Syringe (MDS) platform; clinical samples can be made available by the end of 2019.

**SERVICES/PARTNERING**

- Design Services  
- HF Services (Design and Testing, including Validation)  
- Testing Services (Analytical, Toxicological, including Biocompatibility, Functional, Stability, etc.)

**CONTAINER AND DEVICE PLATFORMS**

- Finished Handheld Injectors (Auto-injectors; Pen Injectors, Safety PFS, etc.)  
- On-body Injectors (Patch Pumps, Large Volume Injectors)  
- Specialty Injectors (Microneedles)

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**CREDENCE MEDSYSTEMS, INC.**  
1430 O’Brien Dr., Suite D, Menlo Park, CA 94025  
Tel: +1 (650) 319-8415  
www.CredenceMed.com  

Credence MedSystems offers a platform of advanced syringe delivery systems. ‘Integrated safety’ (auto needle retraction) is the heart of our devices. Coupled with multiple syringe choices featuring: ‘Staked and Luer’ – ‘Dual Chamber’ – ‘Multi Site’ – ‘Micro Dose’ and ‘CONNECT’ technology, Credence continues to be the most innovative syringe company of choice.

**CONTAINER AND DEVICE PLATFORMS**

- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)  
- Digital Technologies (Bluetooth/NFC Enabled Devices, Apps, etc.)  
- Finished Handheld Injectors (Auto-injectors; Pen Injectors, Prefilled Syringes, Safety PFS, etc.)
DALI MEDICAL DEVICES LTD
6 Nahal Harif St.
POB 13223
Yavne, 8122503
Israel
Tel: +972 8 3730080 | Fax: +972 8 8585857
www.dalimed.com

DALI Medical Devices focuses on the development of drug delivery technologies from product concept to commercialization. One of the injectors we invented and developed was launched in the market by a major pharma company with a blockbuster biologic. In addition, a customized version of SAN-Light was CE marked for an EU Pharma company. Our devices offer a value-added method to deliver and differentiate injectable drugs, whether in PFS, vials or cartridges. The addition of a DALI injector boosts the value of the medication with reduced perception of pain, less anxiety, and better adherence to treatment plans.

SERVICES/PARTNERING

- Consulting Services
- Contract Manufacturing and Research (Formulation, Filling, Assembly, Packaging, Labeling, Sterilization)
- Design Services
- HF Services (Design and Testing, including Validation)
- Testing Services (Analytical, Toxicological, including Biocompatibility, Functional, Stability, etc.)

CONTAINER AND DEVICE PLATFORMS

- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)
- Digital Technologies (Bluetooth/NFC Enabled Devices, Apps, etc.)
- Finished Handheld Injectors (Auto-injectors, Pen Injectors, Prefilled Syringes, Safety PFS, etc.)
- Needle-Free Injectors
- On-body Injectors (Patch Pumps, Large Volume Injectors)
- Specialty Injectors (Microneedles)

DATWYLER PHARMA PACKAGING USA
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Tel: +1 (856) 663-2202
www.datwyler.com

Datwyler Sealing Solutions is a leading industrial supplier and a key player in the global healthcare world. Our state-of-the-art solutions for drug packaging and medical devices, built on more than 100 years of experience. Within our healthcare offering, we provide a unique range of products and services, including the most advanced elastomer formulations, coatings, aluminum seals, and processing technologies. Partnering up with the world’s top pharmaceutical and medical companies, we are a vital link and stand by our mission to ensure all patient’s safety and improve patients’ lives.

CONTAINER AND DEVICE PLATFORMS

- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)
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Warwick, CV34 4AB
United Kingdom
Tel: +44 (01) 926 499 461
www.dca-design.com

DCA is one of the world’s leading product design and development consultancies with extensive experience of successfully delivering strategically important and technically demanding projects across the drug delivery device arena. Our multidisciplinary team offers a comprehensive, integrated, evidence-based service focused on helping our clients achieve success through great product design.

SERVICES/PARTNERING
- Consulting Services
- Design Services
- HF Services (Design and testing, including Validation)
- Testing Services (Analytical, Toxicological, including Biocompatibility, Functional, Stability, etc.)

CONTAINER AND DEVICE PLATFORMS
- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)
- Digital Technologies (Bluetooth/NFC Enabled Devices, Apps, etc.)
- Finished Handheld Injectors (Auto-injectors, Pen injectors, Prefilled Syringes, Safety PFS, etc.)
- Needle-Free Injectors (Microneedles)
- On-body Injectors (Parch Pumps, Large Volume Injectors)

DDL, INC.
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www.DDLTesting.com

DDL Inc. is an ISO/IEC 17025-accredited testing lab that provides package, medical device, combination products, and closed container integrity testing. The company’s team of engineers and technical and quality experts is devoted to helping customers worldwide succeed by taking an independent, involved, and informed approach to ensuring regulatory compliance.

SERVICES/PARTNERING
- Testing Services (Analytical, Toxicological, including Biocompatibility, Functional, Stability, etc.)

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Tel: +1 (450) 534-3666
www.duoject.com

Duoject supplies a wide range of innovative and patented medical devices developed to safely and precisely reconstitute all dry form drugs prior to injection. Duoject has been working with clients since 1985, developing unique delivery solutions for custom applications. Our in-house prototyping and laboratory services ensure we meet the tightest deadlines. As a supplier of medical devices and development services, Duoject develops devices that meet patient needs for safety, precision, and ease of use in drug reconstitution and delivery. With an internationally recognized expertise for design innovation, Duoject's technologies allow its customers to manage and extend their product life cycles.

SERVICES/PARTNERING
• Design Services

CONTAINER AND DEVICE PLATFORMS
• Finished Handheld Injectors (Auto-injectors, Pen Injectors, Prefilled Syringes, Safety PFS, etc.)

E3D ACA LTD.
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Baram, 1386000
Israel
Tel: +972 772568677
www.elcam3d.com

E3D is an Israeli company, a subsidiary of the Elcam group, a global medical device company for more than 35 years. We focus on the design, development, engineering, and full-scale manufacturing of drug delivery devices such as auto-injectors/pens and patch pumps for home care use. E3D is dedicated to working closely with our customers from the initial design phase to final assembly. We strive to understand their specific needs and requirements, so we can design or customize our innovative products to meet those needs.

CONTAINER AND DEVICE PLATFORMS
• Finished Handheld Injectors (Auto-injectors, Pen Injectors, Prefilled Syringes, Safety PFS, etc.)
• On-body Injectors (Patch Pumps, Large Volume Injectors)

EDGEONE MEDICAL INC.
160 E. Marquardt Dr., Wheeling, IL 60090
Tel: +1 (847) 915-1733
www.edgeonemedical.com

EdgeOne Medical was founded in 2012 as a result of a simple observation: in the Medical Device and Combination Product development ecosystem, there was a lack of external service providers for Device Manufacturers who could provide the integrated services of project management, product verification, and validation testing, quality, and regulatory in an ISO 13485-certified lab. This market deficiency led Lilli Zakarija to create the vision for the EdgeOne Medical services offering and the capabilities to achieve it. With our pragmatic, get only what you need, complementary services, medical product developers can more effectively plan and execute product development within the guardrails of regulatory compliance and quality system adherence. EdgeOne is, after all, on a mission to give all medical product developers an edge, one successful product development and management program after another.

SERVICES/PARTNERING
• Consulting Services
• Contract Manufacturing and Research (Formulation, Filling, Assembly, Packaging, Labeling, Sterilization)
• Design Services
• Testing Services (Analytical, Toxicological, including Biocompatibility, Functional, Stability, etc.)
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Flex is the Sketch-to-Scale® solutions provider of design, engineering, manufacturing, real-time supply chain insight, and logistics services to companies worldwide. With more than 200,000 employees and 2,500 engineers across 30 countries, Flex can accelerate time to market and optimize resource allocation throughout the product life cycle. Flex Health Solutions focuses on medical device and drug delivery design, development, and manufacturing solutions for pharmaceutical and medtech companies, including extensive work in injection pens, auto-injectors, wearable pumps, and smart inhalers. Our approach is supported by FDA-registered, ISO 13485 compliant and ISO 11608-1 accredited facilities, with a single, world-class quality system across sites.

SERVICES/PARTNERING
- Consulting Services
- Contract Manufacturing and Research (Formulation, Filling, Assembly, Packaging, Labeling, Sterilization)
- Design Services

CONTAINER AND DEVICE PLATFORMS
- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)
- Digital Technologies (Bluetooth/NFC Enabled Devices, Apps, etc.)
- Finished Handheld Injectors (Auto-injectors; Pen Injectors, Prefilled Syringes, Safety PFS, etc.)
- On-body Injectors (Patch Pumps, Large Volume Injectors)

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CONTAINER AND DEVICE PLATFORMS
- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)

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SERVICES/PARTNERING
- Contract Manufacturing and Research (Formulation, Filling, Assembly, Packaging, Labeling, Sterilization)

CONTAINER AND DEVICE PLATFORMS
- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)
- Finished Handheld Injectors (Auto-injectors; Pen Injectors, Prefilled Syringes, Safety PFS, etc.)
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CONTAINER AND DEVICE PLATFORMS
- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)

NEMERA
20, Avenue de la Gare, LA Verpilliere, 69008
France
Tel: +0033 (0) 4 74 94 06 54
www.nemera.net

Nemera is a world leader in the design, development, and manufacturing of drug delivery devices for the pharmaceutical, biotechnology, and generics industries. Nemera offers a comprehensive portfolio of products and services across ophthalmology, nasal, inhalation, dermal, transdermal, and parenteral delivery. Nemera’s vision is to be the most patient-centric drug delivery device company. Nemera always puts patients first, providing high-quality solutions that have a demonstrable impact on patients’ health.

SERVICES/PARTNERING
- Contract Manufacturing and Research (Formulation, Filling, Assembly, Packaging, Labeling, Sterilization)
- Design Services

CONTAINER AND DEVICE PLATFORMS
- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)
- Finished Handheld Injectors (Auto-injectors; Pen Injectors, Prefilled Syringes, Safety PFS, etc.)

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Nipro PharmaPackaging manufactures the glass tubing that suits you best. Provides you with pre-fillable syringes, cartridges, vials, and ampoules matching your drug product requirements. Enabling you with our range of accessories to differentiate your drug products. And supports you in optimizing your packaging characteristics with our laboratory services.

CONTAINER AND DEVICE PLATFORMS
- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)
Noble International, Inc.
121 South Orange Ave., Suite 1070 North, Orlando, FL 32801
Tel: +1 (954) 778-0057
www.gonoble.com

Noble, an Aptar Pharma company, is the global leader in medical device training solutions, patient onboarding strategies and multisensory product development for the world’s top pharma brands and biotech companies. Through our platform product solutions, our comprehensive services program, and our digital ecosystem products, we work with pharma brands to help improve their patient onboarding and training process. Noble’s revolutionary technologies help create positive experiences and improved health outcomes for patients by supporting them as they administer their combination products confidently and consistently, helping keep them on therapies longer.

Services/Partnering
- Consulting Services

Container and Device Platforms
- Finished Handheld Injectors (Auto-injectors; Pen Injectors, Prefilled Syringes, Safety PFS, etc.)

One World DMG
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www.patientcompliance.com

One World DMG is the leading provider of trainers to the commercial device and pharmaceutical industries. Our patented-technology trainers offer patients and HCPs the most authentic experience possible and promote compliance and better outcomes. A full array of trainers for auto injectors, pens, pre-filled syringes, wearables, and respiratory devices, along with packaging, kits, and video/print instructions are designed by our award-winning team of designers and engineers and manufactured in our ISO13485 facility.

Services/Partnering
- Consulting Services
- Design Services

Container and Device Platforms
- Digital Technologies (Bluetooth/NFC Enabled Devices, Apps, etc.)
- Finished Handheld Injectors (Auto-injectors; Pen Injectors, Prefilled Syringes, Safety PFS, etc.)
- Needle Free Injectors
- On-body Injectors (Patch Pumps, Large Volume Injectors)
- Specialty Injectors (Microneedles)

Parenteral Drug Association (PDA)
4350 East West Hwy., Suite 600, Bethesda, MD 20814
Tel: +1 (301) 656-5900 | Fax: +1 (301) 986-0296
www.pda.org

The Parenteral Drug Association (PDA) is the leading global provider of science, technology, and regulatory information and education for the bio/pharmaceutical community. Founded in 1946 as a nonprofit organization, PDA is committed to developing scientifically sound, practical technical information and resources to advance science and regulation through the expertise of more than 10,500 members worldwide.

PDA Europe
The PDA Europe team is available to chat about exhibiting at the 2021 PDA Universe of Pre-filled Syringes and Injection Devices Conference in Gothenburg, Sweden. Stop by the virtual booth to set up a meeting.

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www.phillipsmedisize.com

Phillips-Medisize is a complete provider of outsource strategy, design, development and manufacturing services to the global pharmaceutical and medical markets. We offer complete end-to-end capabilities from early device strategy through design and development, human factors engineering, clinical production to full scale production and integrated supply chain management to meet the needs of the rapidly growing biopharma and specialty pharmaceutical markets. Phillips-Medisize was the first company to bring an FDA approved connected drug-device product to the market. We have seen how the establishment of a digital ecosystem around a drug can change a market’s understanding of a therapy. We offer an award-winning, FDA registered Connected Health Platform. With four years of on-market experience, we know how to maintain these systems in the field, across a global user base and how to help companies gain useful data insights. Such insights can be used to improve product launch and distribution, but most importantly can help to support patients and their caregivers.

SERVICE/PARTNERING
• Contract Manufacturing and Research (Formulation, Filling, Assembly, Packaging, Labeling, Sterilization)
• Design Services

CONTAINER AND DEVICE PLATFORMS
• Digital Technologies (Bluetooth/NFC Enabled Devices, Apps, etc.)
• Finished Handheld Injectors (Auto-injectors; Pen Injectors, Prefilled Syringes, Safety PFS, etc.)
• Needle Free Injectors

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Portal Instruments is developing and commercializing a highly innovative needle-free jet injection platform that transforms the drug delivery experience for patients suffering from chronic disease. Our aim is to replace all needles and syringes with a safe, fast, and connected device and to become the standard for modern drug delivery.

CONTAINER AND DEVICE PLATFORMS
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• Finished Handheld Injectors (Auto-injectors; Pen Injectors, Prefilled Syringes, Safety PFS, etc.)
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SCHERDEL Group is family-owned with more than 6,000 employees at 32 global locations where we’re manufacturing springs and stamping/bending parts. Our plants are located in all relevant DDD markets. Our focus is to develop the perfect spring for our customers’ DDD for low- and high-viscosity drugs.

SERVICE/PARTNERING
- Contract Manufacturing and Research (Formulation, Filling, Assembly, Packaging, labeling, Sterilization)

CONTAINER AND DEVICE PLATFORMS
- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)

SCHOTT NORTH AMERICA, INC. – PHARMACEUTICAL SYSTEMS
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SCHOTT is one of the world’s leading suppliers of parenteral packaging for the pharmaceutical industry. More than 600 production lines in 13 countries worldwide produce more than 11 billion syringes, vials, ampoules, cartridges, and special articles of tubing glass or polymer. Excellent raw materials, state-of-the-art manufacturing, use of the most up-to-date technologies, and continuous research and development enable the development of innovative product solutions meeting the high demands of our customers.

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- Formulations
- HF Services (Design and Testing, including Validation)
- Testing Services (Analytical, Toxicological, including Biocompatibility, Functional, Stability, etc.)

CONTAINER AND DEVICE PLATFORMS
- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)

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www.schreiner-medipharm.com

Schreiner MediPharm is a leader in the development and manufacture of innovative specialty labels with value-added benefits for the pharmaceutical industry. The product portfolio includes labels with integrated hangers, with detachable parts and multi-page labels. Additionally, the company offers syringe labels with integrated needle protection, anti-tampering and counterfeiting protection solutions as well as NFC/RFID labels and smart packaging solutions. These products simplify dispensing and administering of pharmaceuticals, enhance drug safety, and clearly reduce process costs. Thanks to its strong solutions expertise and specialized know-how, Schreiner MediPharm is a highly capable development partner and quality supplier to leading pharmaceutical companies worldwide.

SERVICE/PARTNERING
- Consulting Services

CONTAINER AND DEVICE PLATFORMS
- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)
- Digital Technologies (Bluetooth/NFC Enabled Devices, Apps, etc.)
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Switzerland
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www.shl-medical.com

SHL Medical is a world-leading designer, developer, and manufacturer of drug delivery devices such as autoinjectors and pen injectors. We work with pharma and biotech companies to develop reusable and disposable injectors that can accommodate various volumes and viscosities, as well as connected technologies for next-generation healthcare.

CONTAINER AND DEVICE PLATFORMS
• Digital Technologies (Bluetooth/NFC Enabled Devices, Apps, etc.)
• Finished Handheld Injectors (Auto-injectors; Pen Injectors, Prefilled Syringes, Safety PFS, etc.)
• On-body Injectors (Patch Pumps, Large Volume Injectors)

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• Drug Delivery Device and Accessories Testing
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SONCEBOZ SA
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Tel: +41 (0)32 488 11 11
www.sonceboz.com

Sonceboz’s core competencies consist of design, development, and production of mechatronic drive systems. Since 1936, our focus has been on innovation, best-in-class quality and service, which is our key to success for worldwide OEM customers. Sonceboz is ISO 13485 certified and active in wearable drug delivery, medical devices, and laboratory industry.

CONTAINER AND DEVICE PLATFORMS
• On-body Injectors (Patch Pumps, Large Volume Injectors)
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Israel
Tel: +972 54 5665295
www.sorrelmedical.com
Sorrel Medical is a medical device company focused on the development and manufacturing of pre-filled wearable injectors for the easy and efficient self-administration of large-volume and high-viscosity medications. One of three privately held companies operating under the Eitan Group, Sorrel leverages core capabilities and expertise in drug delivery technology development, manufacturing, and regulatory experience to offer a robust platform solution to the healthcare market. With innovative technology solutions, Sorrel’s devices address the need for partner-oriented and patient-centric drug delivery systems.

CONTAINER AND DEVICE PLATFORMS
- On-body Injectors (Patch Pumps, Large Volume Injectors)

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Italy
Tel: + 39 049 931 81 11 | Fax: + 39 049 9366151
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SERVICES/PARTNERING
- Contract Manufacturing and Research (Formulation, Filling, Assembly, Packaging, Labeling, Sterilization)
- Testing Services (Analytical, Toxicological, including Biocompatibility, Functional, Stability, etc.)

CONTAINER AND DEVICE PLATFORMS
- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)
- Finished Handheld Injectors

SYNETEGON PHARMA TECHNOLOGY
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CONTAINER AND DEVICE PLATFORMS
- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)
- Finished Handheld Injectors (Auto-injectors; PenInjectors, Prefilled Syringes, Safety PFS, etc.)
TEAM CONSULTING
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United Kingdom
Tel: +44 179 95327
www.team-consulting.com

Team is an award-winning medical device design and development consultancy based outside Cambridge, UK. For more than 30 years, we have worked closely with our clients at the world’s leading pharmaceutical and device companies to develop better medical devices. As specialists in medical device development, our work covers sectors ranging from respiratory and parenteral drug delivery through to medtech, surgical, and diagnostics. Team provides all stages of device development for our clients. Our approach combines design, human factors, science, and engineering from inspiration right through to industrialization. We also deliver specific independent consulting services that support our clients’ in-house device development activities.

SERVICES/PARTNERING
- Consulting Services
- Contract Manufacturing and Research (Formulation, Filling, Assembly, Packaging, Labeling, Sterilization)
- Design Services
- HF Services (Design and Testing, including Validation)
- Testing Services (Analytical, Toxicological, including Biocompatibility, Functional, Stability, etc.)

TERUMO PHARMACEUTICAL SOLUTIONS
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www.terumo-europe.com

Terumo Pharmaceutical Solutions develops patient-oriented parenteral delivery solutions for therapeutic performance and safety. Globally trusted for quality and precision, Terumo offers pharmaceutical and medical device manufacturers around the world comprehensive product design and development services as well as a portfolio of injection, infusion, and primary packaging solutions. Decades of experience collaborating with pharmaceutical companies from the earliest phases of drug development to the latest stages of product commercialization to optimize critical aspects of parenteral drug delivery. Comprehensive parenteral delivery product portfolio. Our broad portfolio of injection, infusion, and primary packaging solutions offer innovative drug delivery technologies ready for today’s most demanding applications.

SERVICES/PARTNERING
- Contract Manufacturing and Research (Formulation, Filling, Assembly, Packaging, Labeling, Sterilization)

CONTAINER AND DEVICE PLATFORMS
- Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)
- Finished Handheld Injectors (Auto-injectors; Pen Injectors, Prefilled Syringes, Safety PFS, etc.)
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SERVICES/PARTNERING
• Contract Manufacturing and Research (Formulation, Filling, Assembly, Packaging, Labeling, Sterilization)

CONTAINER AND DEVICE PLATFORMS
• Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)
• Finished Handheld Injectors (Auto-injectors, Pen Injectors, Prefilled Syringes, Safety PFS, etc.)
• On-body Injectors (Patch Pumps, Large Volume Injectors)

WEST PHARMACEUTICAL SERVICES, INC.
SILVER SPONSOR
530 Herman O. West Dr., Exton, PA 19341
Tel: +1 (800) 345-9800
www.westpharma.com

Pharmaceutical, biotechnology, generic, and medical device companies trust West and our ability to deliver consistent high-quality and technologically advanced containment and delivery solutions. We share their commitment to improving health for patients worldwide.

SERVICES/PARTNERING
• Contract Manufacturing and Research (Formulation, Filling, Assembly, Packaging, Labeling, Sterilization)

CONTAINER AND DEVICE PLATFORMS
• Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)
• Finished Handheld Injectors (Auto-injectors, Pen Injectors, Prefilled Syringes, Safety PFS, etc.)
• On-body Injectors (Patch Pumps, Large Volume Injectors)

YPSOMED
GOLD SPONSOR
Brunnmattstrasse 6, CH-3401 Burgdorf, Switzerland
Tel: + 41 34 424 41 11
www.ypsomed.com
@ypsomed

Ypsomed is the leading independent developer and manufacturer of innovative self-injection systems. The customizable and proven platform products include mechanical and connected autoinjectors for pre-filled syringes in 1 mL and 2.25 mL, pre-filled patch injectors for 2-10mL, and multi-dose pens. Ypsomed provides its partners with technological expertise and regulatory support.

CONTAINER AND DEVICE PLATFORMS
• Closure Technologies and Accessories (Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)
• Digital Technologies (Bluetooth/NFC Enabled Devices, Apps, etc.)
• Finished Handheld Injectors (Auto-injectors, Pen Injectors, Prefilled Syringes, Safety PFS, etc.)
• On-body Injectors (Patch Pumps, Large Volume Injectors)
ZEON SPECIALITY MATERIALS, INC.
25 Metro Dr., #238, San Jose, CA 95110
Tel: +1 (408) 641-7889 | Fax: +1 (408) 516-9382
www.zeonsmi.com

ZEON’s Zeonex® and Zeonor® cyclo olefin polymer (COP) allow for advanced, break-resistant syringes, vials, and lyophilization containers for protein-based biopharmaceuticals, high viscosity drugs, and contrast media. They also offer high purity, “glass-like” transparency, sterilization, low water absorption, and superior moldability, as well as overcome protein adsorption and pH shift concerns.

CONTAINER AND DEVICE PLATFORMS

- Plastic raw material for PF devise
LISTING BY CATEGORY

SERVICES/PARTNERING

Alliance Management
Bespak by Recipharm 16

Contract Manufacturing and Research
(Formulation, Filling, Assembly, Packaging, Labeling, Sterilization)
AST 15
BAUMANN Springs Ltd. 16
Catalent Biologics 17
DALI Medical Devices Ltd 19
EdgeOne Medical Inc. 21
Flex 22
Lyophilization Technology, Inc. 22
NEMERA 23
Phillips-Medisize 25
Scherdel Medtec GmbH & Co. KG 26
Stevanato Group 28
Team Consulting 29
Terumo Pharmaceutical Solutions 29
Vetter Pharma International GmbH 30
West Pharmaceutical Services, Inc. 30

Consulting Services
Aptar Pharma 15
BD Medical – Pharmaceutical Systems 16
DALI Medical Devices Ltd 19
DCA Design International 20
EdgeOne Medical Inc. 21
Flex 22
NEMERA 23
One World DMG 24
Team Consulting 29

HF Services
(Design and Testing, including Validation)
Aptar Pharma 15
BD Medical – Pharmaceutical Systems 16
Bespak by Recipharm 16
Congruence Medical Solutions, LLC 18
DALI Medical Devices Ltd 19
DCA Design International 20
SCHOTT North America, Inc. – Pharmaceutical Systems 26
Team Consulting 29

Design Services
Aptar Pharma 15
BAUMANN Springs Ltd. 16
BD Medical – Pharmaceutical Systems 16
Bespak by Recipharm 16
Congruence Medical Solutions, LLC 18
DALI Medical Devices Ltd 19
DCA Design International 20
Duoject Medical Systems Inc. 21
EdgeOne Medical Inc. 21

Testing Services
(Analytical, Toxicological, including Biocompatibility, Functional, Stability, etc.)
Aptar Pharma 15
BD Medical – Pharmaceutical Systems 16
Congruence Medical Solutions, LLC 18

DALI Medical Devices Ltd 19
DCA Design International 20
DDL, Inc. 20
EdgeOne Medical Inc. 21
SCHOTT North America, Inc. – Pharmaceutical Systems 26
Stevanato Group 28
Team Consulting 29
West Pharmaceutical Services, Inc. 30
CONTAINER AND DEVICE PLATFORMS

Closure Technologies and Accessories
(Pre-fillable Syringes, Cartridges, Vials, Caps, Stoppers, Plunger Stoppers, PFS Back-stops, Needle Safety Accessories, Needles)

Aptar Pharma 15
BAUMANN Springs Ltd. 16
BD Medical – Pharmaceutical Systems 16
BIOCORP 17
Credence MedSystems, Inc. 18
DALI Medical Devices Ltd 19
Datwyler Pharma Packaging USA 19
DCA Design International 20
Duoject Medical Systems Inc. 21
Flex 22
GETINGE 22
Lyophilization Technology, Inc. 22
Mitsubishi Gas Chemical Company, Inc. 23
NEMERA 23
Nipro PharmaPackaging 23
Phillips-Medisize 25
Scherdel Medtec GmbH & Co. KG 26
SCHOTT North America, Inc. – Pharmaceutical Systems 26
Schreiner MediPharm 26
Smithers 27
Stevanato Group 28
Syntegon Pharma Technology 28
Terumo Pharmaceutical Solutions 29
Vetter Pharma International GmbH 30
West Pharmaceutical Services, Inc. 30
YPSomED 30

Digital Technologies
(Bluetooth/NFC Enabled Devices, Apps, etc.)

BD Medical – Pharmaceutical Systems 16
BIOCORP 17
Credence MedSystems, Inc. 18
DALI Medical Devices Ltd 19
DCA Design International 20
Flex 22
One World DMG 24
Phillips-Medisize 25
Portal Instruments, Inc. 25
SHL Medical AG 27
Smithers 27
Stevanato Group 28
Syntegon Pharma Technology 28
Terumo Pharmaceutical Solutions 29
Vetter Pharma International GmbH 30
West Pharmaceutical Services, Inc. 30

Finished Handheld Injectors
(Auto-injectors; Pen Injectors, Prefilled Syringes, Safety PFS etc.)

BD Medical – Pharmaceutical Systems 16
BIOCORP 17
Smithers 27
Stevanato Group 28
Syntegon Pharma Technology 28

Brevetti Angela SRL 17
Catalent Biologics 17
Congruence Medical Solutions, LLC 18
Credence MedSystems, Inc. 18
DALI Medical Devices Ltd 19
DCA Design International 20
Duoject Medical Systems Inc. 21
E3D ACA Ltd. 21
Flex 22
Lyophilization Technology, Inc. 22
NEMERA 23
Noble International, Inc. 24
One World DMG 24
Phillips-Medisize 25
Portal Instruments, Inc. 25
SHL Medical AG 27
Smithers 27
Stevanato Group 28
Syntegon Pharma Technology 28
Terumo Pharmaceutical Solutions 29
Vetter Pharma International GmbH 30
West Pharmaceutical Services, Inc. 30

Needle-Free Injectors

DALI Medical Devices Ltd 19
DCA Design International 20
One World DMG 24

Portal Instruments, Inc. 25
Smithers 27

On-body Injectors
(Patch Pumps, Large Volume Injectors)

BD Medical – Pharmaceutical Systems 16
Bespak by Recipharm 16
Congruence Medical Solutions, LLC 18
DALI Medical Devices Ltd 19
DCA Design International 20
E3D ACA Ltd. 21
Flex 22
One World DMG 24
Phillips-Medisize 25
Portal Instruments, Inc. 25
SHL Medical AG 27
Smithers 27
Stevanato Group 28
Syntegon Pharma Technology 28
Terumo Pharmaceutical Solutions 29
Vetter Pharma International GmbH 30
West Pharmaceutical Services, Inc. 30

Specialty Injectors
(Microneedles)

Congruence Medical Solutions, LLC 18
DALI Medical Devices Ltd 19
One World DMG 24
Smithers 27