www.prodieco.com

Discover Prodieco:

Your Trusted Partner for Blister Tooling Solutions

Prodieco

Advanced Engineering Solutions

Prodieco is a state of mind

Prodieco stands as the premier provider of high-performance blister tooling change parts in the pharmaceutical industry, but we are more than that; we represent a mindset dedicated to quality, operational excellence, and precision in everything we do.

Our ethos is straightforward – **There's always a better way.** This principle is evident not only in our continuous pursuit of internal process improvement but more significantly, in our commitment to refining every tool design to produce the perfect blister pack.

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Advanced Engineering Solutions

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Business Summary

The Start of a Never-Ending Pursuit of Excellence

Everything started in Dublin, Ireland in 1962 when Prodieco – short for Progressive Die Company – was founded as a press tooling company. Our founders – a small team of passionate and technically astute engineers – commenced operations with an unwavering commitment to never sacrifice our high-quality standards.

For sixty years, we have followed their revolutionary philosophy to design, develop and deliver the highest-quality engineering solutions for our customers. Today, although we operate with a global mindset, reflecting the international reach of 98% of our products & services, we act with local consideration, maintaining strategic locations worldwide.

Our commitment to quality continues to be absolute and uncompromising. In an industry where success is dependent on measurement to within a micron precision, we've maintained unrivalled attention to detail from day one. We believe that quality goes to the heart of our blister tooling; it's not just about maintaining pharmaceutical integrity—it's about providing advanced engineering solutions.

Vision Statement

To become a globally renowned engineering brand admired for our quality products, people and performance.

Mission Statement

To be the global leader in the design, manufacture and servicing of blister tooling and associated components to the pharmaceutical industry.

Across Borders, Beyond Expectations:
Prodieco's Global Network

At Prodieco, we adopt a global mindset while maintaining a local focus. With 98% of our products and services exported to customers across over 55 countries, we extend our commitment to quality and precision on a global scale. Our dedicated sales representatives cover regions spanning West and East Europe, North, Central, and South America, Northern and Southern Africa, the Middle East, and South East Asia.

With a proven track record of excellence, we continuously strive for innovation. Our team of over 280 skilled employees is passionately dedicated to the design and manufacturing of blister format size parts and feeders for the Pharmaceutical industry.

Complete After-Sales Support

Dedicated to delivering exceptional customer service and tailored blister tooling solutions, Prodieco stands out with our commitment to providing complete support at every stage of the process. We aim to be your trusted partner for all your blister tooling needs.

Our team of talented engineers offers comprehensive on-site support, including product installation, programming the complete blister line, and qualifying the blister format size parts. We understand the importance of knowledge transfer and training, and our engineers will stay on-site until these are successfully completed.

Prodieco's Manufacturing Capabilities: Excellence in Every Sector

Prodieco stands at the forefront of manufacturing excellence, offering a comprehensive range of capabilities to meet the diverse needs of our customers. With a highly skilled team of design engineers and a state-of-the-art manufacturing facility, we are equipped to handle complex projects in Medical Device Fixture Design, Automation, Machine Design, Pharma Packaging Tool Design, and Automated Feeding & Packaging Systems.

State-of-the-Art Manufacturing Facility

- 6225 m2 manufacturing facility in Dublin optimized for efficiency and quality.
- Lean manufacturing principles and continuous improvement culture.
- 24-hour production.
- Vertically integrated facility for in-house design and manufacture of highly engineered tooling and equipment.

Design Engineering Expertise

- Dedicated team of over 50 highly experienced Design Engineers.
- Over 300 employees across the business delivering unparalleled solutions.
- Specialized in Medical Device Fixture Design, Automation, Machine Design, Pharma Packaging Tool Design, and Automated Feeding & Packaging Systems.

Comprehensive Manufacturing Assets

- Multi Pallet, 5 Axis, Bar Feeder, Probing Capability.
- 50x CNC Assets including Milling, Turning, Wire Erosion, Grinding, and Material Preparation.
- Ensuring precision and efficiency in every manufacturing process.

Our Approach

Order Fulfilment Timeline

1 Customer Enquiry

Tablet Information;
Machine Type;
Blister Card Size;
Materials;
Tablets per Blister Pack;
Requirements;
Carton / Casepacker.

2 Blister Design & Quotation

Quotation Lead Time - 72 hours;
Lead Time for Blister Design 1-2 days;
Detailed 3D Blister Drawing;
All critical dimensions highlighted;
All cavity details are clear;
All required information highlighted.

3 Commence Project

Approval of Pack Layout Drawing;
Sample Tablets;
An audit is available upon Request;

4 Week 1 to 3

Dedicated Tool Feeder Design;
Assignment of Design Team;
Referencing Feeder Database;
All drawings created in 3D;
Reference to site audit;
A driving pack is used to eliminate potential issues.

5 Week 4 to 6

Tooling Manufacture & Assembly;
The project is planned on the MRP system;
3D Machining to ensure accuracy;
Measuring & Scanning of the Components;
Complete Traceability.

6 Week 7

Testing & Validation;
A dedicated team of Testing Engineers;
Over 20 Blister lines are available;
5 Feeder Testing Stations;
Techlab FAT Facility Requirements.

7 Week 8

Delivery to Customer's Site;
All documentation Provided;
Shipping paperwork according to your requirements.

8 Week 9

SAT
An Expert Technician dedicated to your Machine type will be available on-site.

Prodieco

Blister Tooling Solutions

Advanced Engineering Solutions For All Makes and Models of Blister Packaging Lines

Blister Tooling Solutions

Prodieco's unparalleled expertise and design excellence in blister tooling format size change parts are derived from decades of experience in designing and manufacturing for all varieties of Blister Packaging Lines. This extensive experience affords us unique engineering insights and a comprehensive understanding, enabling optimal tool design for each unique format.

Blister Design

Our pack layout design engineers are pioneers in blister pack design and innovation. For every blister card designed by Prodieco, immense consideration is given to the parameters and limitations presented by the blister machine, product shape, feeding method, base and leading foil combinations, and tooling optimisation. This allows us to produce the most reliable blister with the best possible production output.

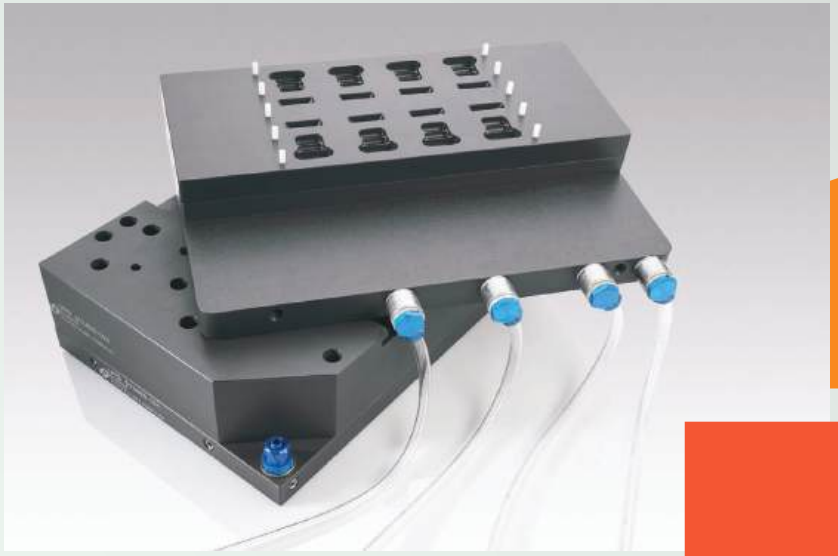
Cartoning

Prodieco provides comprehensive solutions for carton format size parts, ensuring understanding of the unique components required for pushing and stacking blisters in cartoning machines. We optimize cartoning functionality and offer advice on leaflet and carton design to enhance production and process reliability. Additionally, we supply end-of-line change parts for case packers and bundling machines.

Design Excellence that Exceeds your Expectations

Coldform - Forming Tools

Prodieco provides fully certified Coldform tooling which is rigorously tested to ensure pinholes, micro channels or delamination will not occur on the blister. We have worked with leading material providers for more than two decades ensuring that our Coldform blister tooling is fully optimised to their specific materials.

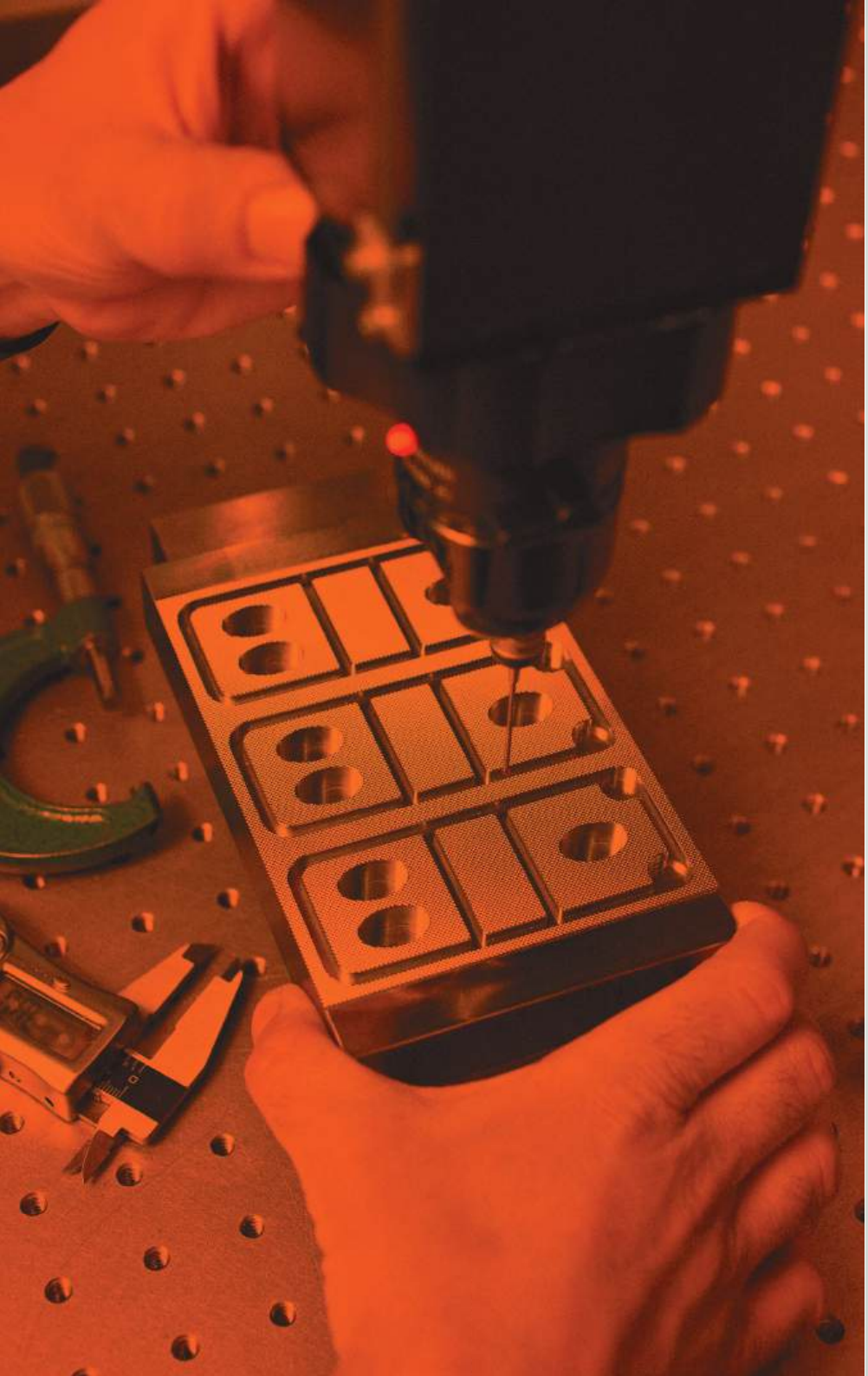


Thermoform - Forming Tools

The design of each cavity is optimised around the blister thermoform process and the unique forming characteristics of the material. Prodieco's design and optimisation of the materials allow for an even distribution of material into the cavity resulting in longer shelf life for products.

Cartoning Units

Whether your packaging line is an integrated blister/cartoner from the same supplier or a custom line made from separate manufacturers, Prodieco can ensure the same level of tooling quality and service for all your blister and cartoning tooling. A 'one-stop-shop' for your complete tooling needs brings the advantages of seamless integration and ease of project management.



Operational Excellence

FAT Testing

Our Techlab is a state-of-the-art research and testing facility that allows for full Factory Acceptance Testing (FAT) on a variety of blister packaging lines. Here, our highly-skilled technicians test all blister tooling format change parts and advise on parameters used for forming different material types, temperatures used and optimal production speed and process reliability. That's our guarantee that the format parts ordered by our customers are ready to "Plug and Play" on their machines, the minute they receive them.

Complete After-Sales Support

We have a dedicated team of commissioning engineers at your disposal. They'll come to your site and install the new blister format size parts and feeders for you. They're capable of programming the complete blister line and qualifying the blister format size parts on the line. Our engineers offer you the required flexibility to stay on site until all the knowledge is transferred and training is provided to your personnel.

Qualification Documentation

During your blister tooling project, you'll receive a full and detailed report on the key milestones including tool FAT test reports; feeder FAT test reports; parameter lists used for testing; material traceability and declaration reports and risk assessments; compliance and final design reports and all FDA certificates.

Prodieco

Blister Feeding Solutions

Prodieco Brings Unmatched Expertise And Impeccable Standards To Deliver Exceptional Quality Across All Available Feeding Systems In The Market.

Blister Feeding is integral to achieving optimal productivity in blister packaging. Prodieco, drawing on decades of experience, offers unparalleled expertise in the primary feeding systems available in the industry. Our Feederlab, a standout testing facility, underpins this deep knowledge, setting the standard in pharmaceutical testing.

Our advanced blister feeding solutions, whether for irregular shapes or standard tablets, exemplify precision and efficiency. From the innovative Brushbox system to the adaptable HMH Sypro®, Prodieco's offerings are the culmination of over sixty years of dedication to excellence. Every solution, carefully crafted by our seasoned engineers, ensures our customers receive components that are ready for immediate, seamless integration.

Feederlab

Excellence in Blister Feeding Validation

Recognizing the crucial role of tablet feeding in blistering operations, Prodieco established FeederLab, a state-of-the-art testing and validation facility. Here, we rigorously assess our vibratory, tube-style, rotary-style, and universal feeding systems.

FeederLab symbolizes our commitment to research, testing excellence, and innovation. When customers opt for Prodieco, they get more than just equipment; they acquire feeding solutions that are thoroughly validated and machine-tested. With FeederLab's assurance, our products promise seamless integration and optimal performance. Simply put, our solutions, ready to "plug and play" upon arrival, set a new benchmark in the life sciences industry.

Precision-Driven Blister Feeding Solutions

Change-part Feeder for Tube Feeding Systems

Our tube feeding systems are ideally suited for both oval and irregularly shaped products as well as conventional tablets and capsules. They are designed to efficiently dispense products into pockets, ensuring each item is centred with ample head space.

At Prodieco, we prioritize precision. Our experts conduct a comprehensive analysis of every tablet and blister pack to determine the best feeding strategy. This analysis includes considerations such as adapting the shape of the internal tubes for product tolerance, selecting tube colours for multi-product packs, positioning the stopper pins, and optimizing the design of exit chutes and the tube entry in the hopper well. After finalizing the design, its efficiency is validated with hands-on testing in our Feederlab – a premier facility specializing in the testing and validation of our range of feeding systems.

Brushbox – Next Generation Universal Feeding System

Drawing on over two decades of feeder design expertise, Prodieco presents the Brushbox – a versatile system compatible with a broad spectrum of blister machines. Engineered to optimise feed efficiency and minimise downtime, it features an intuitive design for swift and seamless brush part changeovers. Additionally, the system can be equipped with brushes, planetary paddles, or both, tailored to your specific needs.

Change Parts for Vertical Feeding Systems

Prodieco offers a variety of vertical feeder designs for both thermoform and coldform blisters, crafted with impeccable quality, efficiency, and precision by our expert engineers. In our testing facilities, technicians use test tracks to determine optimal feeding methods and identify challenges like shingling or oval locking, ensuring each feeder meets the essential product speeds and standards.

PRODIECO IS AN OFFICIAL PARTNER OF **HMH SYSTEMS**

HMH Sypro® Feeder

Optimising Efficiency, Boosting Productivity and Ensuring Rapid Changeovers

The HMH Sypro Feeder is engineered to amplify both performance and productivity. Compatible with both continuous and intermittent blister packaging lines, this servo-driven system ensures precision. With all feeder adjustments electronically managed via the HMI interface, fine-tuning can be executed from any location.

Moreover, with optimal feeding settings stored in a database, the system's program automatically configures the right settings for each product. This ensures swift changeovers and consistently high fill rates.

HMH Sypro® Feeder Features:

- A high-speed, high-efficiency tablet feeding system that can be seamlessly integrated into existing blister lines, thereby enhancing equipment performance.
- Fully servo-controlled, allowing for the programming of the ideal recipe, which can be easily recalled when needed. Access is safeguarded through security settings.
- Adaptable to all forming materials, accommodating challenging tablet shapes and intricate blister designs.
- Designed for both continuous and intermittent machines. Format changeovers in minutes.

Prodieco

Centres of Excellence

At Prodieco, our promise is to give you a fully validated, machine tested blister, ready to use when it arrives at your plant. To achieve this, we've built two unique centres of excellence: Techlab and Feederlab.

Techlab

A Unique and Unrivalled Testing Centre for the Pharmaceutical Industry

Techlab is a state-of-the-art research and testing facility that allows for full Factory Acceptance Testing (FAT) on the most popular blister machine in the market. Here, our highly skilled technicians test all blister tooling format change parts and advise on parameters used for forming different material types, temperatures used and optimal production speed and process reliability.

If you want to experiment with solutions on a diverse number of European blister packaging lines, without causing downtime on your own production lines, Techlab is our one-of-a-kind, broad and flexible testing ground available to you. Here, blister packs are given life allowing you to experience the latest innovations in packaging materials and process parameters in an ultramodern production-style environment solely dedicated to testing change parts for you.

3,261

Quality checks & tests are performed each week from the first inspection and second inspection to FAT documentation.

25

Blister lines are dedicated exclusively for testing format size change parts.

Centres of Excellence

Feederlab

Tablet feeding is one of the most critical aspects of the overall performance of the blistering operation and has the biggest effect on productivity. To ensure yours is no longer on the critical path, we put all our solutions through our Feederlab – unparalleled testing and validating facility for our vibratory, tube-style, rotary-style and universal feeding systems.

R&D Solution Centre

We've invested heavily in the creation of our Solution Centre. Here, our R&D specialists harness cutting-edge technologies in design, automation, robotics, machine vision, data-analytics, materials and pharma-sterilisation technology, to develop world-class pharmaceutical packaging equipment.

725

Feeding systems are manufactured on average per year spanning vibratory, tube -style and rotary-style feeders. No tablet shape or size is too difficult to feed.

8%

Turnover is invested in R&D and innovation projects every year. Long-term success is founded on continuous improvement.

Prodieco

Tablet Handling & Sorting Solutions

Tablet Handling & Sorting Solutions

elimVision | Tablet Sorting System

ElimVision gives individual tablet rejection to your existing counting line, removing the need for bottle level rejection for damaged products.

The inspection system is easily retrofitted to any tablet counter and is versatile to handle all types of products.

The system can reject a wide range of defects for tablets, capsules, and gel caps. The Elim Vision is fully compliant with 21 CFR part 11.

ElimVision equips your existing tablet counter with single tablet rejection capability.

Tablet Handling & Sorting Solutions

elim | Tablet Sorting System

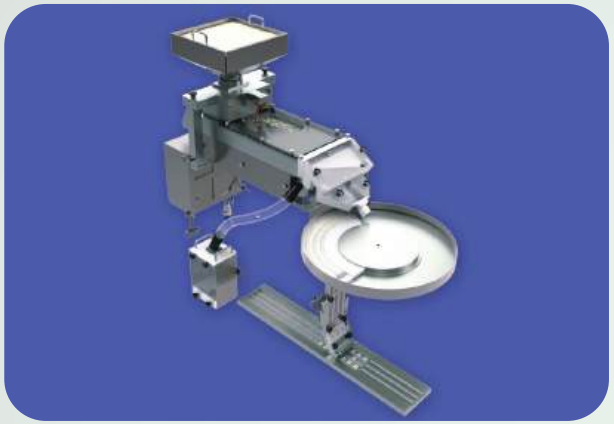
Introducing the groundbreaking Elim machine by Prodieco, designed to address challenges faced by pharmaceutical companies due to broken tablets causing disruptions in feeding systems and downtime.

The Elim employs a mechanical vibratory system that efficiently sorts broken products before they enter the tablet feeding system. This versatile solution can be seamlessly integrated into various machine types and multiple sites, enhancing Overall Equipment Efficiency (OEE) for blister packaging lines.

With its inline capability, the Elim significantly reduces setup time compared to labour-intensive offline sorting systems. Implementing the Elim system translates to substantial cost savings, minimising product waste, and boosting operator morale in your operations. Elevate your packaging line performance with the innovative Elim machine from Prodieco.

A Unique Sorting Solution That Eliminates Defective Products While Boosting OEE And Maximizing Production.

System Applications, Inline & Offline Sorting Solutions



elim on the Blister Line

The most efficient and popular option.

elim Offline

Mobile, transfer between packaging and tabletting suites.

elim Addition of Automatic Weighing Scales

Programme exact weight to be sorted with automatic shut off to switch between containers.

Proven Results with elim

A Prodieco customer used the elim system to sort a batch of 1.3 million tablets. 1.5kg of the defective product was isolated finding 6,500 broken tablets & particles.

Before installing the elim system, the customer had a delay of about 1-2 minutes to clear each blockage caused by a broken product. The adoption of the elim system developed by Prodieco helped the customer to avoid wasting over 6,500 minutes with defective products which contributed to saving 108 hours over 5 days or 3 working shifts.

Elim is the best solution to increase production performance and OEE while saving money!

Discover how to eliminate defective products and increase production. Contact our support team today!

- Eliminate Cost
- Eliminate Broken Tablets
- Eliminate Tablet Particles
- Eliminate Tablet Twins
- Eliminate Micro Stoppages
- Eliminate Low Operator Morale

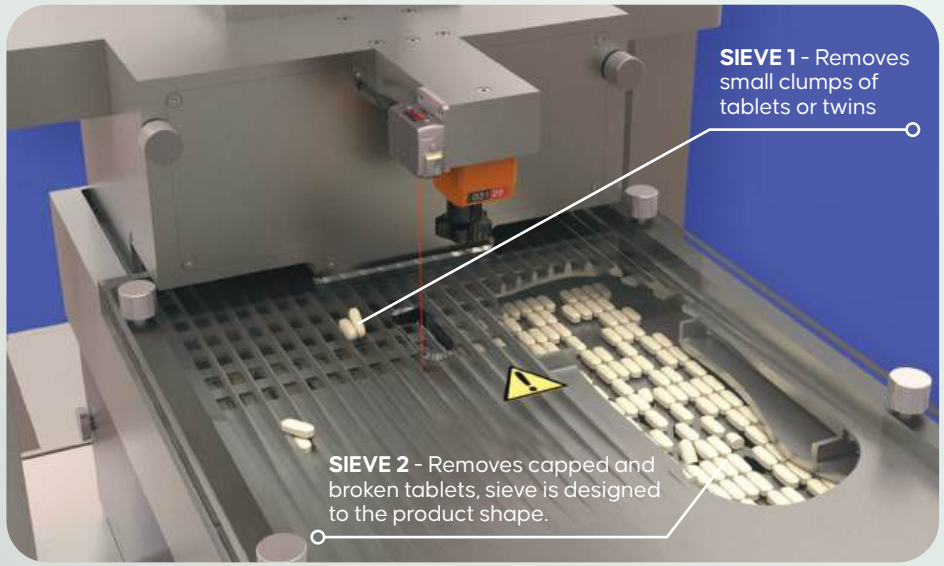
How does the elim work?

PLC Controlled Gate mechanism to control tablet flow. elim product channel width can be 300mm or 400mm wide – throughput dependant on blister machine and tablet geometry specifications.

- Results can be up to 4-5kg/min throughput.
- The vibratory drive unit ensures single-layer sieving.
- Dedicated product-specific sieve plates that are designed for quick and easy changeover.

Rejection Capability

The elim system rejects broken, clumped and capped tablets eliminating micro-stops and increasing OEE on blister packaging lines. Prodieco's rigorous quality control has shown that all tablet particles smaller than 75% length of the tablet size are rejected 100% of the time.



Technical Data

Installation Dimensions | Adapted to end-user requirements

Dimensions	L1037 x H600 x W440mm
Hopper Volume	**Range** – 25ltrs to 80ltrs
Operation Control	**Product Flow Control** – S7 Siemens PLC **Vibration Amplitude Control** – REOVIB MFS 268 **elim Operation** – Feeder product level sensor controls elim to switch ON & OFF

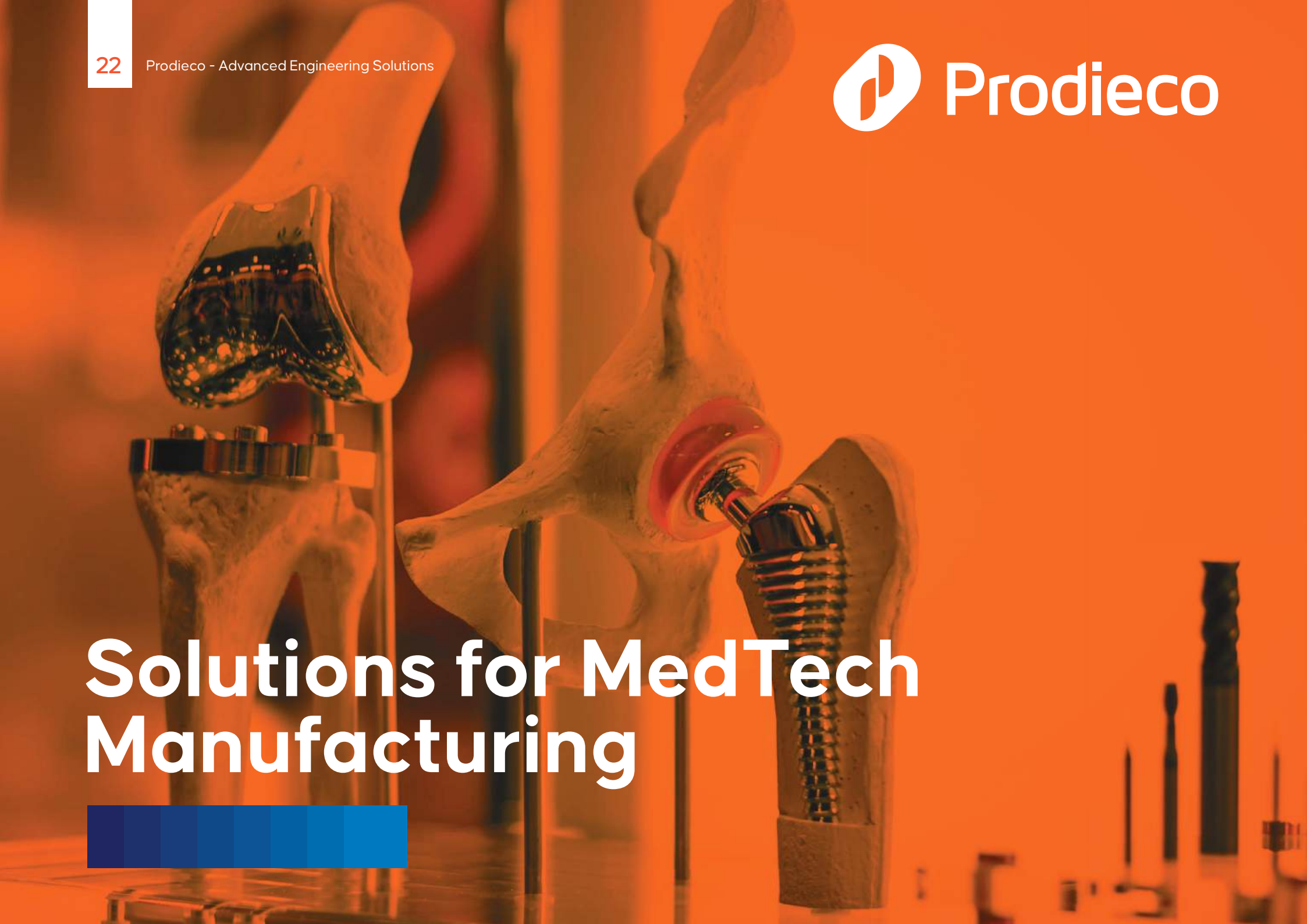
Facilities Requirements

Power Requirements	**Phases** – Single Phase **Frequency** – 50 Hz **Voltage** – 220 - 240 Vac **Current** – 0.5 Amp
Pneumatic Requirements	**Pressure Minimum** – 4 Bar – 0.4MPa – 51psi **Grade - Minimum** – ISO 8573.1 Grade 1.2.2 **Pneumatic Connection** – Varies on site
House Extraction	**Venturi Pressure** – Varies on site **elim Pipe (OD Standard)** – To suit requirements

Documentation

User Manual – A4 bound hardcopy + Digital Copy
Product Contact Change Parts – Documentation Supplied
Product Dedicated FAT Test Sheets – Supplied with setup parameters
Quality Documentation – IQ/OQ and Qualification Documentation

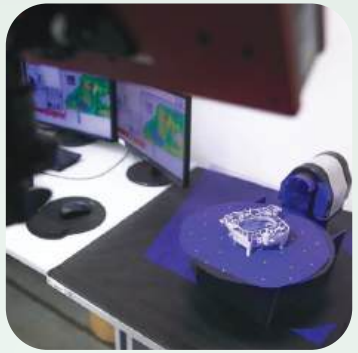
Prodieco



Solutions for MedTech Manufacturing

Prodieco's Unrivalled Knowledge and Unique Understanding Applied to your Medical Devices

Prodieco's MedTech division not only brings unrivalled knowledge and design excellence to medical device manufacturers, but also offers a dedicated team of over 40 design engineers with the capability and expertise to design, manufacture and assemble new concepts, replicate existing parts, and develop automated solutions. With Prodieco's deep knowledge of form, seal and cutting tools, our team can provide you with unique understanding and engineering insight to help you design more innovative and complex medical devices. You can trust Prodieco to improve overall manufacturing efficiency and deliver solutions that will exceed your expectations.



Precision Device Components

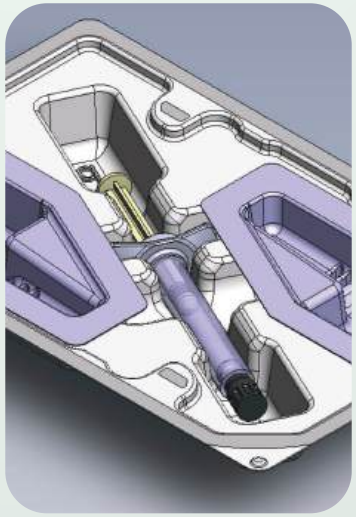
- Medical Device Components
- Manufacturing Process Parts
- Component Design, Development & Manufacture
- R&D Department NPI Support
- Supply Chain Sub-assemblies
- 3D Scanning & Reverse Engineering

ISO 13485 – Quality Management Systems for Medical Devices

Prodieco is committed to improving and providing better ways of delivering quality solutions for medical devices and ancillary equipment production.

nqa.
ISO 13485
MEDICAL DEVICES

The result of this never-ending pursuit for excellence has granted us the ISO 13485 certification confirming Prodieco's ability to provide the highest standards of medical devices and related services that consistently meet customer and applicable regulatory requirements.



Custom Fixtures & Assemblies

We are experts at engineering precision parts for manufacturing processes, components, and sub-assemblies for medical devices such as bespoke, turnkey automated systems. At Prodieco, we provide inspection stations and test fixtures for accurate and repeatable manufacturing operations.

- Bespoke Fixturing and Work Holding Solutions
- Medical Device Sub-Assemblies
- Test Rigs
- Format Tooling for Healthcare Thermoform Packaging
- QA / EOL Fixtures
- R&D Department / NPI Support

We're Here To Help

Support at Every Stage

Prodieco's dedicated customer support division offers a range of comprehensive services for blister packaging machines. These unique support packages are tailored to your exact needs for format parts, commissioning engineer assistance and product and process reliability services.

Format Start-Up

Our dedicated Prodieco Commissioning Engineers are not only experts in the format parts, their expertise encompasses packaging materials, packaging machines and process optimisation. Having them at your disposal allows for immediate production start-up during Site Acceptance Testing for new formats. What's more, their know-how will be passed on to your people so that we can develop long-term relationships with you.

Operational Plus

Prodieco's specialist engineers are uniquely equipped to provide optimisation proposals that improve overall packaging process efficiency. Firstly, they provide a comprehensive analysis of your current production process looking at packaging technology, operating staff knowledge, workflow methods, format change over, packaging materials, logistics and all the processes and inputs around the packaging process. They then use this to provide you with a tailored solution proposal to overcome any issues that they discover.

Points of Contact

Whether it is for a quote request, a general enquiry or product info, contact us today and our team will be happy to help.

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Our Partners

SYPRO® FEEDER

Efficiency, Productivity and Quick Changeovers.

IN2 PRINTING SOLUTIONS

Flexibility, Reliability and Cost Savings in Full Colour.

RBP BAUER DEBLISTERING.

Effortless Retrieval of Blister Packaging Rejects.

There is always a Better way.

SCAN HERE

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