

# The experience we bring to you, matters to **TOM**



From the first automatic lancing device to our patented self-injection devices, with Owen Mumford you have access to unrivalled experience in designing, developing and delivering solutions to help make adherence easier for your patients...just like Tom.



PUTTING **LIFE** INTO **TECHNOLOGY**

# Proven design

Innovation derived from 6 decades of collective design and engineering experience

# Proven development

A fully integrated approach with seamless support from start to finish

# Proven delivery

In-market success assured by an unparalleled track-record

Integrated design and build service from a broad **base of proven** self-injection and blood-sampling **platform** devices and intellectual property.

This leaflet includes product summary information, please contact us for further details on specifications, modifications and availability.

# Proven devices: self-injection

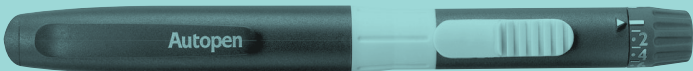
Ensuring that patients are willing and able to inject their medication is key to their wellbeing and your success. As pioneers in both auto-injectors and self-injection pens, our experience has helped seven out of ten leading pharmaceutical companies find the solution that is right for them.

## The Autopen® family of platform solutions

### Autopen®1

**The first injection pen with side-button automatic delivery**

Autopen®1’s side mounted push-button is designed to be less intimidating than a plunger and easier to handle, even for people with smaller hands or reduced dexterity. The Autopen®1 platform has been trusted by 2/3 of the largest insulin suppliers, and in treating Growth Hormone Deficiency, Infertility, Osteoporosis, and Multiple Sclerosis and veterinary applications.



### Autopen®2

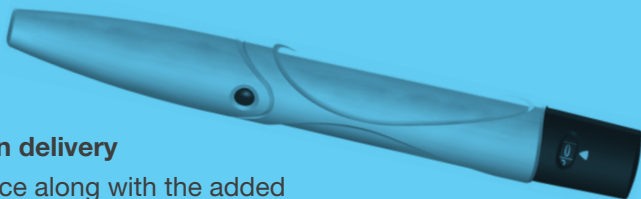
**The injector pen with increased dose control**

As with the original Autopen®1, Autopen®2 is an easy-to-use and durable device, but it was created with a click-back function to correct over-dialling prior to injection, overcoming some of the barriers patients face when self-injecting.

### Autopen®3

**The disposable self-injection pen with automatic push-button delivery**

Autopen®3 provides all the benefits of an automatic delivery device along with the added convenience of an injection pause function. Available in refillable and disposable versions.



	Autopen®1	Autopen®2	Autopen®3
Press-button automatic delivery of drug	Yes (Side-button)	Yes (Side-button)	Yes (Top)
Refillable	Yes	Options available	Options available
Disposable		Options available	Options available
Needle hidden after injection	Yes (When used with safety needle)	Yes (When used with safety needle)	Yes (When used with safety needle)
End of dose indication	Yes (Visual)	Yes (Visual)	Yes (Visual and Audible)
Multi-Dose	Yes	Yes	Yes
Variable Dose	Yes	Yes	Yes
Fixed Dose		Optional	Optional
Cartridge Size	3ml	1.5ml, 2ml and 3ml options	3ml
Cartridge Compatibility	Options available	Lilly, Wockhardt etc.	Lilly, Wockhardt etc.

### Unifine® Pentips®/Pentips® Plus

**Pen needles with advanced proprietary siliconisation for smoother injections**

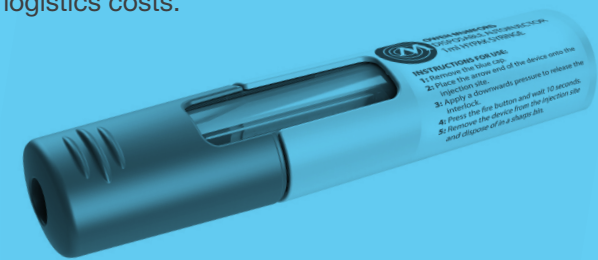
Unifine® Pentips® have been developed for a comfortable injection experience. Triple sharpened, ultra-thin, gauge needles combined with anti-coring technology and high quality silicone are specifically designed to reduce penetration force for a comfortable injection. Unifine® Pentip® Plus add a built-in remover for safer use.

# The Autoject® family of platform solutions

## Autoject® Micro

**A true auto-injector with automatic needle insertion in a compact body**

Autoject® Micro is the next generation disposable auto-injector. Its compact design is the result of patented drive mechanism technology allowing true auto-injection in a more discreet package. It is designed to improve adherence by overcoming barriers to self-injection – whilst addressing your cold store and logistics costs.



## Autoject® Flex

**The disposable auto-injector with passive needle safety and true auto-injection**

Autoject® Flex's patented, anti-tamper feature ensures ultimate safety. It is simple to use – right from the start, making it ideal for patients with dexterity problems. Simple component designs and a low component count allow for efficient, easy, and economic manufacturing.

## Autoject® Uni

**The disposable auto-injector that gives your patients safety and control**

Needle retraction offers safety benefits, but some patients could find automatic retraction disconcerting. Autoject® Uni's patented mechanism is designed to solve this problem by giving control back to the patient – simply press the button to automatically retract the needle when ready.



## Autoject® Mini

**The simple auto-injector platform trusted for use with blockbusters and small brands alike**

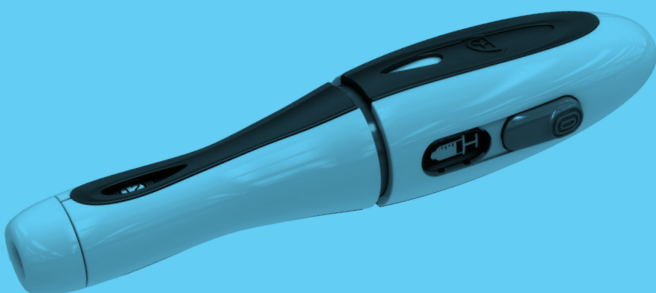
Despite its sleek exterior, Autoject® Mini is trusted to make self-injection easier even for challenging scenarios like Rheumatoid Arthritis and emergency use (epinephrine). The simple design lends itself to the flexible customisation of features, and it is available in both disposable and reusable versions. We can also help you with the final assembly of your drug device combination products.



## Autoject®2

**The versatile auto-injector proven across multiple therapy areas**

Autoject®2 is unrivalled among auto-injectors, having been trusted by many global pharmaceutical partners across therapy areas including Multiple Sclerosis, Infertility and Growth Hormone Deficiency. You can depend on it to remove barriers to self-injecting your drug, confident in its track record of product durability and reliability.



## Autoject® Multi

**The combined benefits of an auto-injector and disposable pen**

Studies have shown that complexity, fear, and handling concerns can all negatively affect patient adherence. Autoject® Multi is a proven, cartridge-based auto-injector that enables your patients to inject multiple, fixed doses. At the touch of a button, the needle is automatically inserted, and the dose delivered. And the needle is hidden at all times.



	Autoject® Micro	Autoject® Mini	Autoject®2	Autoject® Flex	Autoject® Uni	Autoject® Multi
Reusable		Yes <sup>b</sup>	Yes			
Disposable	Yes	Yes <sup>b</sup>		Yes	Yes	Yes
True auto-injector: needle is injected and drug delivered at the touch of a button	Yes	Yes	Yes	Yes	Yes	Yes
Needle hidden before injection	Yes <sup>a</sup>	Yes	Yes	Yes	Yes	Yes
Needle hidden after injection	Yes <sup>a</sup>			Yes	Yes	Yes
Safety Lock to prevent accidental activation	Yes	Yes	Yes	Yes	Yes	Not applicable <sup>c</sup>
End of dose indication	Yes (Visual, Audible)	Yes (Visual)	Visual	Yes (Visual)	Yes (Visual)	Yes (Visual)
Needle shield removal	Yes	Yes	Yes	Yes	Yes	Not applicable <sup>c</sup>
Multi-Dose						Yes
Fixed Dose	Yes	Yes	Yes	Yes	Yes	Yes
Syringe type	1ml Glass prefilled fixed needle	1ml Glass prefilled fixed needle	Options available <sup>b</sup>	1ml (long) Glass prefilled fixed needle	1ml (long) Glass prefilled needle	3ml cartridge
Subcutaneous	Yes	Yes <sup>b</sup>	Yes <sup>b</sup>	Yes	Yes	Yes
Intramuscular		Yes <sup>b</sup>	Yes <sup>b</sup>			
Intracavernosal			Yes <sup>b</sup>			
Adjustable needle depth			Yes			Not applicable <sup>c</sup>

<sup>a</sup> Sharps Injury Protection (ISO23908, ISO110608-1, ISO11068-5)

<sup>b</sup> Variant available

<sup>c</sup> Utilises cartridge and pen needle



# Proven devices: diagnostic

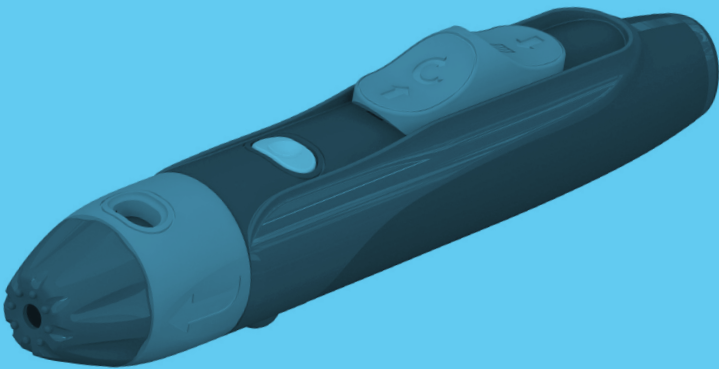
Since developing the first automatic lancing device over three decades ago, we have worked with diagnostic partners, like you, to provide blood sampling device solutions. Today, you can choose from a comprehensive range of platform devices for both clinical and home use. The devices are also manufactured by us, in our own production facilities, ensuring consistently high standards. If you have specialist requirements for your diagnostic device, please **contact us** to find out more about our **design and build** service.

## Innovative blood sampling solutions

### Autolet® Plus

**The lancing device with intuitive usage cues and Comfort Zone Technology®**

Autolet® Plus is designed make the most of your meter kit. Intuitive usage cues and a sequenced mode of operation help ensure your customers can use the device the very first time without problems. Comfort Zone Technology® ensures comfortable sampling without impacting blood flow\*, helping your patients obtain enough blood to run your test with less pain.



\* Data on file

### Autolet® Torca

**The lancing device with fewer usage steps for comfortable sampling in less time and less hassle**

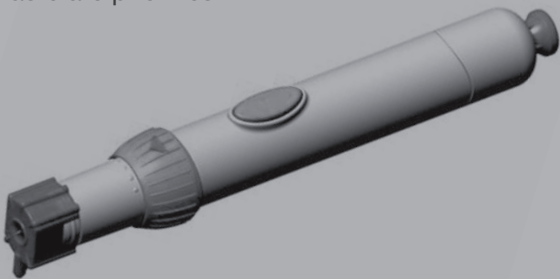
Autolet® Torca provides all the benefits of Autolet® Plus, moreover its unique slot-in lancet technology eradicates the need for a removable end cap. This not only halves the user steps to replace a lancet, but avoids issues associated with dropping or losing the end cap making sampling simpler and faster.



### Autolet® CliniSafe™ II

**The reusable lancing device with added safety**

The unique design of Autolet® CliniSafe™ II makes it easy to use a fresh lancet and end cap each time. At the single press of a button, lancet and end cap are ejected, making it ideal for scenarios where added safety and reduced waste are priorities.

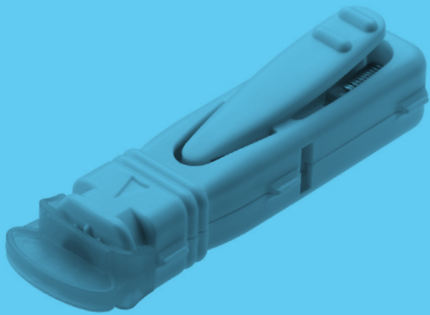


### Unistik®3

**Consistent quality with unsurpassed comfort**

With a side-mounted button, Unistik®3 is designed for easy handling and to be less intimidating than other devices. Patented Comfort Zone Technology® is proven to reduce pain without affecting blood flow, which helps to reduce pain-related anxiety.

The Unistik®3 platform is trusted by leading, global, blood glucose meter manufacturers and hospitals.



### Unistik® variations

	Gentle	Comfort	Normal	Extra	Neonatal
Penetration depth	1.5mm	1.8mm	1.8mm	2.0mm	1.8mm
Lancet gauge	30G	28G	23G	21G	18G
Common uses	Glucose	Glucose; HbA1c	Glucose; HbA1c; cholesterol	Cholesterol; haemoglobin (Hgb); diagnostic kit tests: cardiac enzymes	Congenital Hypothyroidism; Phenylketonuria (PKU); single heelstick tests: bilirubin, glucose, haemoglobin; Sickle Cell disease; blood gases & electrolytes; chemistry test profiles; <i>H.pylori</i>

### The Autolet® family

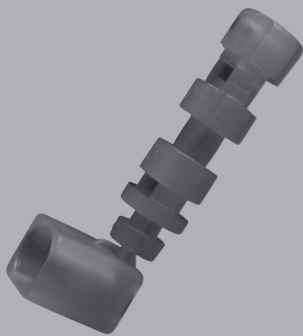
	Autolet® Plus	Autolet® Torca	Autolet® Clinisafe™ II
Comfort Zone Technology®	Yes	Yes	Yes
Slot-in lancet		Yes	
Side mounted button	Yes	Yes	Yes
Adjustable penetration depth	Yes	Yes	Yes
Lancet reload	Yes	Yes	No
Lancet release	Yes	Yes	Yes
Reusable	Yes	Yes	Yes, in part
Compatible with Standard Lancets	Yes		
Common uses	Diabetes (glucose, ketones)	Diabetes (glucose, ketones)	Diabetes (glucose, ketones)

### Unilet® Lancets

**Class-leading needle manufacturing to suit a range of needs**

Owen Mumford offers a complete range of lancet designs with different needle sizes to suit the specific needs of your test whilst providing minimal discomfort to the end-user. A range of proprietary manufacturing technologies ensures consistently high performance of our lancets.

Off-the-shelf lancets are compatible with all standard lancing devices.†



† Except Roche Multiclix and Softclix Plus, LifeScan OneTouch Delica

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