



Designed with Purpose  
Engineered for Precision



# ShailyPen Protean<sup>®</sup>

## Disposable or Reusable Pen Injector

0 – 60 units insulin

1.8 mg and 3.0 mg liraglutide

Abaloparatide

Semaglutide

	P3 3 dose	P5 5 dose	P60 Disposable Insulin	PS1 Single dose	PR60 Reusable Insulin
<b>Length</b>	158.5 mm				
<b>Width</b>	16 mm				
<b>Dose setting</b>	Dial out				
<b>Dose actuation</b>	Press in				
<b>Dose size</b>	3 doses: 0.1 ml, 0.2 ml, 0.3 ml	5 doses: 0.1 ml, 0.2 ml, 0.3 ml, 0.4 ml, 0.5 ml	1-60 IU	40 µl	1-60 IU
<b>Resolution</b>					
<b>Primary pack</b>	3 ml cartridge	3 ml cartridge	3 ml cartridge	1.5 ml cartridge	3 ml cartridge
<b>Last dose lockout</b>	Yes - during dialling				Yes - during dosing
<b>Resettable</b>	No	No	No	No	Yes
<b>Extension</b>	16.5 mm	27.5 mm	33 mm	4.4 mm	33 mm
<b>Total reach</b>	30 mm	41 mm	46 mm	18 mm	46 mm
<b>Force</b>	5-8 N	5-8 N	5-8 N	~ 5 N	~ 5 N
<b>Delivery time</b>	N / A				
<b>Needle</b>	Pen needles to ISO 11608-2				
<b>Key features</b>	High gearing, low force injection, easily customisable				
<b>Indications &amp; feedback</b>	Dose markings for set dose, audible dialling clicks, audible injection clicks				
<b>Final assembly</b>	Cartridge Holder, Cartridge and Mechanism				
<b>Intellectual property</b>	Clean patent position with protection of key features				
<b>Compliance</b>	ISO 11608, EU MDR, US FDA				



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# ShailyPen Harmony<sup>®</sup> 2

## Pen Injector

GLP-1

	3 ml	1.5 ml
Length	162.5 mm	
Width	19.7 mm	
Dose setting	Dial out	
Dose actuation	Press in	
Dose size	0.75 ml	0.375 ml 0.1875 ml
Resolution	31.25 µl	15.63 µl
Primary pack	3 ml cartridge	1.5 ml cartridge
Last dose lockout	Yes	
Resettable	No	
Extension	10.1 mm	
Total reach	27.4 mm	
Force	<15 N	<13 N
Delivery time	N / A	
Needle	Pen needle to ISO 11608-2	
Key features	Low dial extension	
Indications & feedback	Dosage marking for set dose, audible dialling clicks, audible injection clicks	
Final assembly	Cartridge holder, Cartridge, and Mechanism	
Intellectual property	Clear patent position with protection of key features	
Compliance	ISO 11608, EU MDR, US FDA	



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# ShailyPen Neo™

## Variable or Fixed-Dose Spring-Driven Pen Injector

GLP-1, Liraglutide, Semaglutide

Length	169.0 mm
Width	17.8 mm
Dose setting	Dial – no extension
Dose actuation	Press button
Dose size	0.75 ml max dose
Resolution	0.01 ml
Primary pack	3 ml cartridge 1.5 ml fill available
Last dose lockout	Yes
Resettable	No
Extension	0 mm
Total reach	16 mm
Force	5-7 N
Delivery time	~ 4 s at max dose
Needle	Pen needles to ISO 11608-2
Key features	No extension, spring driven, low consistent force, ergonomic use
Indications & feedback	Dose markings for set dose, audible dialling clicks, gauge indicator for dose progression.
Final assembly	Cartridge Holder, Cartridge and Mechanism
Intellectual property	Clean patent position with protection of key features
Compliance	ISO 11608, EU MDR, US FDA



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# ShailyPen Maxim™

## 80-Unit Reusable or Disposable Pen Injector

Insulin, GLP-1, Alternate Therapies

Length	160.0 mm
Width	18.5 mm
Dose setting	Dial out
Dose actuation	Press in
Dose size	0.8 ml
Resolution	0.01 ml
Primary pack	3 ml cartridge
Last dose lockout	Yes
Resettable	Optional
Extension	22 mm
Total reach	35 mm
Force	8 - 12 N
Delivery time	N / A
Needle	Pen needles to ISO 11608-2
Key features	Low extension, high dose volumes
Indications & feedback	Dose markings for set dose, audible dialling clicks
Final assembly	Cartridge Holder, Cartridge, and Mechanism
Intellectual property	Clean patent position
Compliance	ISO 11608, EU MDR, US FDA



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# ShailyPen Axiom<sup>®</sup>

## Fixed-Dose Pen Injector

Teriparatide, PTH, FSH

Length	162.0 mm
Width	24.5 mm
Dose setting	Pull out
Dose actuation	Push in
Dose size	80 µl
Resolution	Fixed dose
Primary pack	3 ml cartridge
Last dose lockout	Yes
Resettable	No
Extension	18.5 mm
Total reach	29 mm
Force	5-7 N
Delivery time	N / A
Needle	Pen needles to ISO 11608-2
Key features	Zero prime
Indications & feedback	Red line shown when dose selected, audible clicking during dose delivery.
Final assembly	Cartridge Holder, Cartridge and Mechanism
Intellectual property	Clear patent position with protection of key features
Compliance	ISO 11608, EU MDR, US FDA



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# ShailyPen Axiom Max™

## Fixed-Dose Pen Injector

GLP-1

Length	158 mm
Width	18.3 mm
Dose setting	Pull out
Dose actuation	Push in
Dose size	0.75 ml (customisable)
Resolution	Fixed dose
Primary pack	3 ml cartridge 1.5 ml cartridge
Last dose lockout	Yes
Resettable	No
Extension	21 mm
Total reach	35 mm
Force	6-12 N
Delivery time	N / A
Needle	Pen needles to ISO 11608-2
Key features	Zero prime, low force extension, large dose volume, simple user steps
Indications & feedback	Dose counter, instruction window
Final assembly	Mechanism, Cartridge, Cartridge Holder, Zero Prime Setting
Intellectual property	Clear patent position with protection of key features – patent pending
Compliance	ISO 11608, EU MDR, US FDA



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# Shaily AI Tristan™

## Three-Step Auto-Injector

Tirzepatide, Dulaglutide, GLP-1

Length	150 mm
Width	20.9 mm
Dose setting	Remove cap, twist to unlock
Dose actuation	Press button
Dose size	Up to 1 ml
Resolution	Empty all
Primary pack	1.0 ml PFS
Last dose lockout	Yes
Resettable	No
Extension	0 mm
Total reach	6 mm
Force	~ 15 N
Delivery time	~ 2 s
Needle	~ 5 - 6 mm
Key features	Automated needle extension, automated needle retraction, button lock-out after dosing
Indications & feedback	Indicator of lock and unlock, clicks on start of dose and retraction.
Final assembly	Two sub-assemblies, PFS Clamp, and PFS
Intellectual property	Clear patent position with protection of key features
Compliance	ISO 11040, ISO 11608, EU MDR, US FDA



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# Shaily AI Toby™

## Two-Step Auto-Injector

GLP-1, Epinephrine

	1 ml	2.25 ml	Emergency Use 1 ml
<b>Length</b>	137 mm	137 mm	165 mm
<b>Width</b>	19 mm	21.6 mm	26.2 mm
<b>Dose setting</b>	Remove cap		
<b>Dose actuation</b>	Press on skin		
<b>Dose size</b>	Up to 1 ml (configurable)	Up to 2.25 ml (configurable)	Up to 1 ml (configurable)
<b>Resolution</b>	Empty all		
<b>Primary pack</b>	1 ml PFS	2.25 ml PFS	1 ml PFS
<b>Last dose lockout</b>	Yes		
<b>Resettable</b>	No		
<b>Extension</b>	N / A		
<b>Total reach</b>	N / A		
<b>Force</b>	10 - 15 N		
<b>Delivery time</b>	1-7 s (configurable)		
<b>Needle</b>	Staked to PFS (configurable)		
<b>Key features</b>	Needle cover lock-out after dosing		
<b>Indications &amp; feedback</b>	Dose clicking to indicate dose progression and start of dose. Yellow indicator in window to indicate end of dose.		
<b>Final assembly</b>	Two sub-assemblies and PFS		
<b>Intellectual property</b>	Clear patent position with protection of key features – patent pending		
<b>Compliance</b>	ISO 11040, ISO 11608, EU MDR, US FDA		



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# Shaily Mira™

## Wearable Auto-Injector

Various possible therapies

<b>Length</b>	132 mm
<b>Width</b>	62 mm
<b>Dose setting</b>	Load device to body
<b>Dose actuation</b>	Electronic button
<b>Dose size</b>	Up to 20 ml
<b>Resolution</b>	Empty all
<b>Primary pack</b>	Up to 20 ml cartridge
<b>Last dose lockout</b>	Yes
<b>Resettable</b>	No
<b>Extension</b>	N / A
<b>Total reach</b>	N / A
<b>Force</b>	N / A
<b>Delivery time</b>	Customisable – 1 minute to 2 hours
<b>Needle</b>	Self contained (customisable)
<b>Key features</b>	Play / pause injection control
<b>Indications &amp; feedback</b>	Visual and feedback via LEDs
<b>Final assembly</b>	Two Sub Assemblies and Cartridge
<b>Intellectual property</b>	Clean patent position with protection of key features
<b>Compliance</b>	ISO 11608, EU MDR, US FDA



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# ShailySafe LAN™

## Safety Device

Lanreotide

Length	209 mm
Width	24.7 mm barrel 57.9 mm flange
Dose setting	Remove cap
Dose actuation	Press button
Dose size	Up to 0.5 ml
Resolution	Empty all
Primary pack	Shaily bespoke
Last dose lockout	Yes
Resettable	No
Extension	N / A
Total reach	80 mm
Force	20 N max
Delivery time	20 s
Needle	18 gauge, 20 mm penetration
Key features	Automated needle retraction, device lockout after dosing, high-viscosity medication, sterilisable
Indications & feedback	Dose progression markings, post dose lockout
Final assembly	Fill container, Front Sub Assembly, Button
Intellectual property	Clear patent position with protection of key features – patent pending
Compliance	ISO 11608, ISO 11040, ISO 23908, ISO 7886



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# Advancing Drug Delivery with Science, Speed, and Scale

## Crafted Concepts, Customised Platforms, Confident Commercialisation

Developing medical devices is never simple. It takes speed, precision, and the ability to manage complexity at every stage. This is where Shaily comes in.

We support pharmaceutical partners with both newly crafted concepts and customised platform technologies, always with the assurance that products can be efficiently and confidently commercialised at scale.

Our team brings together design, simulation, testing, industrialisation, regulatory support, large-scale manufacturing, and post-market support, so that partners can move from concept to market with fewer handovers, less risk, and more confidence.

With facilities in the UK and India, including injection moulding and automated assembly lines in Class 8 clean rooms, test laboratories, R&D studios, rapid prototyping, CT scanning, and tool rooms, we give our partners the capability to scale reliably.

Our regulatory and QMS expertise ensures that every programme meets the highest international standards. We operate under ISO 13485, ISO 15378, CDSCO MDR 2017, MDSAP, and FDA 21 CFR 820, and are regularly audited by TÜV SÜD. Customers also benefit from direct access to our technical and customer support teams.

Whether choosing and customising one of our many proven platforms, developing a bespoke device, or scaling your existing products, Shaily helps pharmaceutical leaders deliver world-class drug delivery solutions efficiently, reliably, and at scale.



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