HASELMEIER™
A medmix Brand

PiccoJect™

PRODUCT BROCHURE

EXCELLENCE THROUGH SIMPLICITY

medmix
DRUG DELIVERY


Single-Dose Autoinjector
PiccoJe
100
For Single Patient Use O

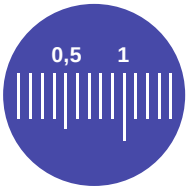

Single-Dose Autoinjector
PiccoJect™
100
For Single Patient Use Only

Key features of PiccoJect™

PiccoJect™ is a highly compact, customizable and fully featured two-step autoinjector designed for subcutaneous delivery of drug products.

Extremely low part count
Only 8 parts in total – reduces manufacturing and scale up challenges.

Ergonomic shape & small size
Thanks to its compact flat form the PiccoJect™ is easy to grip and hold.

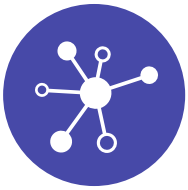


Large wrap-around drug window with customizable size
Facilitates visual inspection of the drug prior to use.

Colored status indicator
Provides easy-to-understand binary information about the usage status of the autoinjector.

Optimized spring forces
A parallel layout allows for larger diameter springs, which enables optimized spring forces.

Audible clicks at the start and end of injection
Help to ensure that the user holds the device in place until the full dose has been injected.



Future proof
Multiple connectivity options to integrate into a digital ecosystem.

Any standard 1 ml long or 2.25 ml pre-filled syringe
Design accommodates glass or plastic syringes with a small round or cut flange.

Committed to sustainability
Low carbon intensity as a standard offering: Utilizing materials with sustainable feedstocks, investment in green electricity, and development of regional supply chains for the US and European market.

A full-service platform
Combination product development, design verification, final assembly, secondary packaging, labeling, and serialization included.

PiccoJect™ – 100

PiccoJect™ – 225

Technical specifications

SPECIFICATIONS	PICCOJECT™ – 100	PICCOJECT™ – 225
Part count	5 plastic components, 2 springs, 1 metal component	
Primary container	1 ml long glass or plastic syringe	2.25 ml glass or plastic syringe
Syringe flange	Small round or cut flange	Small round or cut flange
Fill volume (how to adapt the fill volumes)	0.2 – 1 ml	0.6 – 2 ml
Injection time*	< 10 s	< 15 s
Viscosity**	Up to 20 cP	
Needle insertion depth	6 mm (nominal); customization possible	
User feedback	Audible click at start and end of dose; visual feedback in drug window and dedicated status indicator	
Needle safety	Automatic needle shielding with needle hidden before, during and after use	
Needle type and gauge	27G and 29G, normal wall through special thin wall	
Weight	26 g (without syringe)	34 g (without syringe)
Dimensions	H = 130 (cap on), W = 26, D = 15 mm	H = 134 (cap on), W = 30, D = 19 mm

*, ** Injection time and viscosity capability are dependent on needle diameter and fill volume.

Simplicity is key to efficiency

'Excellence trough simplicity' sums up the key features of PiccoJect™.

It all starts with an extremely low part count:
The PiccoJect™ autoinjector is made up of only eight parts. Apart from the syringe, the highly integrated delivery mechanism consists of five injection-molded plastic parts, two springs and one metal component.

The delivery mechanism of the PiccoJect™ autoinjector accommodates any standard 1 ml long and 2.25 ml pre-filled glass or plastic syringe with a small round or cut flange. The same mechanism is available with two different cross-sections, tailored to the applicable syringe size to provide two discrete and user-friendly device form factors.

only 8 parts: reduced manufacturing & scale up challenges

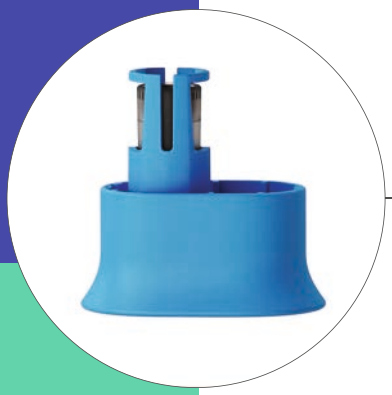
ergonomic shape & large drug window: excellent user experiences

materials with sustainable feedstocks & regional supply chains

Easy to customize

Thanks to its versatile design, the PiccoJect™ autoinjector can easily adapt to a range of customer requirements. Standard customization options include cap color, the size of the drug window, and spring force. Agility is key: these customization options are available without any detrimental impact on development timelines.

fully customizable label



different color options for the cap

customizable size of the drug window

Single-Dose Autoinjector
PiccoJect™
100
For Single Patient Use Only
Single-Dose Autoinjector
PiccoJect™
100
For Single Patient Use Only
Single-Dose Autoinjector
PiccoJect™
100
Single-Dose Autoinjector
PiccoJect™
100
Single-Dose Autoinjector
PiccoJect™
100
Single-Dose Autoinjector
PiccoJect™
100

PiccoJect™ is designed for the future

The design includes a number of connectivity options that are either integrated or provided as an add-on module, without modifying the core mechanism or compromising handling.

For connectivity to an app, an add-on bluetooth module is being developed that can be re-used on multiple pens. The module is easy to attach and has an expected two years battery life without the need to recharge.

As the coverage of IoT networks increases and the costs of hardware go down, we can also provide a version of PiccoJect™ that connects directly to the cloud, allowing data to be collected without requiring the use of a patient app.

Automatic collection and storage of treatment data helps patients save time because there is no need to document each injection event on paper.

Committed to sustainability

At Haselmeier, sustainability is embedded in our daily business and in the foundation of our corporate strategy. Our sustainability policy enables us to reduce waste and minimize environmental impact. We keep our supply chain short and simple for reliable deliveries. Excellence through simplicity applies not only to our prodcuts and processes but also to the way we collaborate with our customers.

Eco-design principles

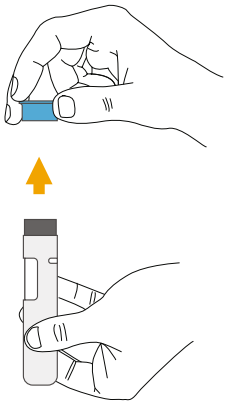
The underlying design concept of the PiccoJect™ autoinjector was driven by sustainability requirements. PiccoJect™ is Haselmeier's first product which was developed according to our eco-design principles. This resulted in a design that features low carbon intensity materials as standard for all plastic components.

In line with the medmix approach to keep shipping routes short, our manufacturing and distribution facilities are located in the geographies where our customers and partners are based. The PiccoJect™ autoinjector is manufactured at Haselmeier sites that rely on low-carbon electricity.

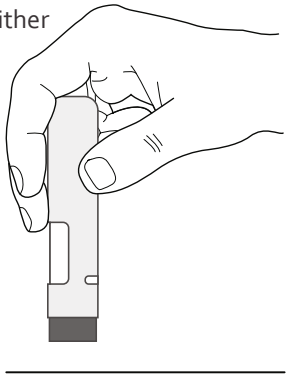
Delivering a better user experience

To help ensure adherence, the PiccoJect™ autoinjector is designed from the ground up for ease of use.

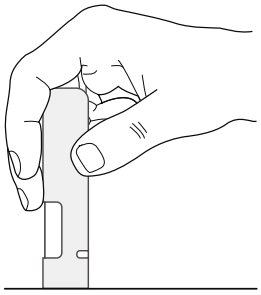
1 **Remove cap** by pulling it away from the autoinjector body



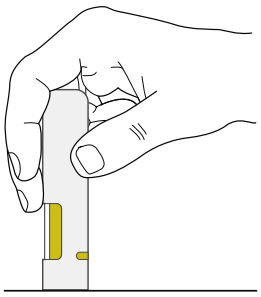
2 **Align with body** (either abdomen or thigh)



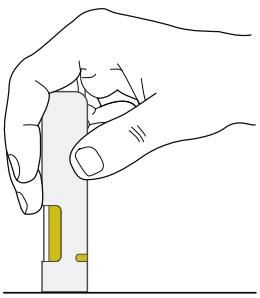
3 **Gently press down** so that the needle guard depresses (you may hear or feel a click)



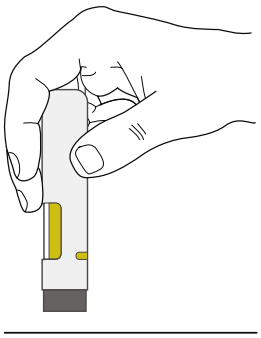
4 **Hold still and wait** for the injection to finish (drug window and status indicator change to yellow)



5 **Wait a further 3 seconds** after the indicator changes to allow the injection to complete



6 **Remove** the autoinjector from the skin and place in the sharps bin



Users are excited

Results from a recent study

Scope and setup

- PiccoJect™ was compared in a preference study with comparable marketed devices.
- Users (n=24) representing patients and caregivers were asked to perform simulated injections on both thigh and abdomen.
- Visually and functionally representative models of the devices were used.
- The study included naive and experienced users in equal parts and included some participants with physical impairments.

Result

The PiccoJect™ design was extremely well received. 92% of the participants selected PiccoJect™ when asked for their overall preference.

The wrap-around drug window and the non-round cross-section were particularly appreciated by participants:

- 83% of the participants rated the visibility of the PiccoJect™ drug window as superior.
- 75% of the participants reported that they preferred the wide cross-section of PiccoJect™.

Participants rated the 1 ml variant of PiccoJect™ 28% higher than the comparable marketed device when asked to indicate their willingness to adopt (based on a 7-point Likert scale).

Haselmeier™ GmbH
Vaihinger Straße 48
70567 Stuttgart, Germany
Phone: +49 711 71978-0
Email: customerservice.drugdelivery@medmix.com

For more information visit us at
www.haselmeier.com
www.medmix.swiss

EN_900_200_D102_Rev.01 – 2022-05-03