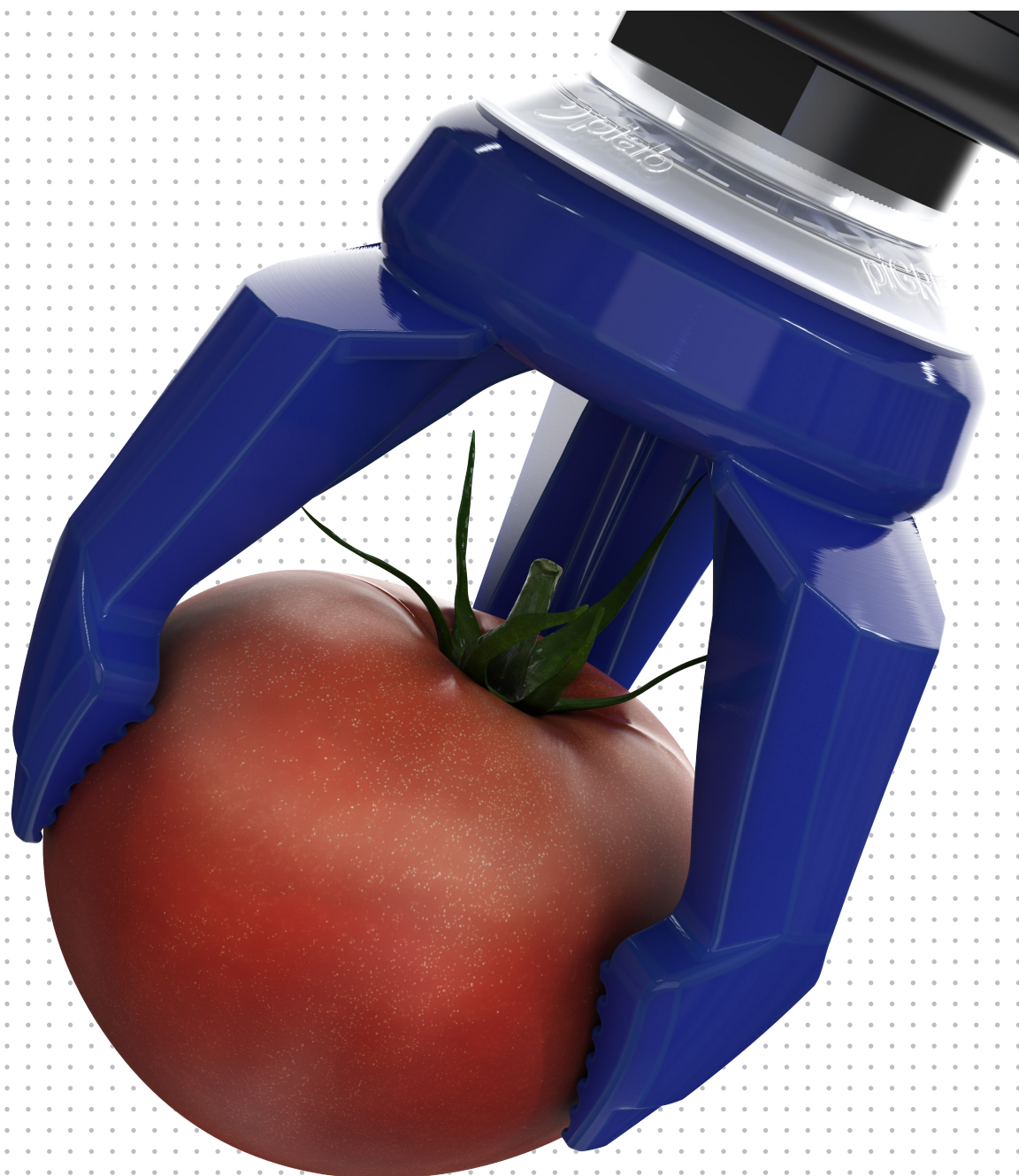


# Unique vacuum-based soft gripper for handling sensitive and delicate objects

piSOFTGRIP®



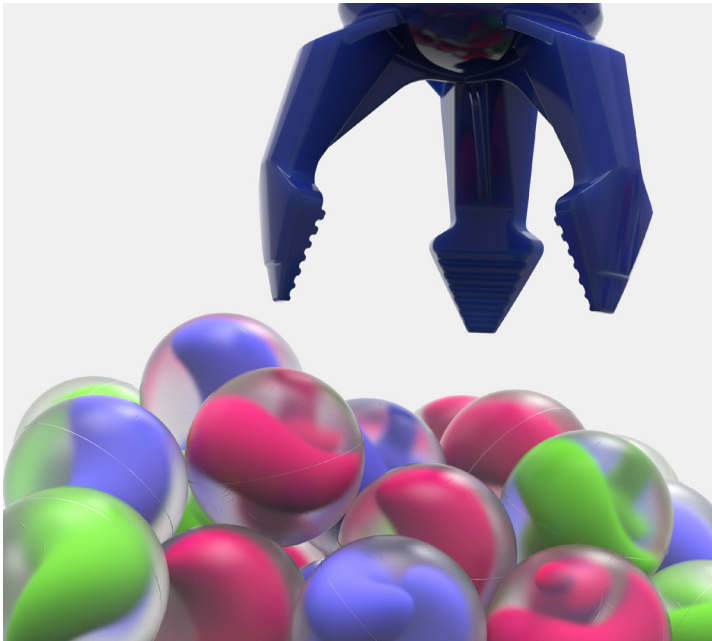
# piSOFTGRIP®

A cost-effective soft gripping tool that is developed especially with food industry automation in mind.

The unique piSOFTGRIP® has three gripping fingers and a vacuum cavity, all made in one piece, resulting in a simple and robust product. As it is vacuum-driven, the gripping force is easily adjusted and controlled by the applied vacuum level.

The soft gripper will grip sensitive and lightweight objects of odd geometries and/or an unusual surface. Bin-picking of small irregularly shaped objects, such as toys, is another potential application.





*piSOFTGRIP® is great for picking delicate objects and applications involving bin-picking.*







## First of its kind!

Made in detectable silicone approved for direct contact with food, in accordance with FDA 21 CFR and EU 1935/2004 regulations, the piSOFTGRIP® vacuum gripper is the first of its kind.

The food-compliant silicone gripper enables the food industry to extend their automated food handling to include a wider range of products. Unpackaged, fresh and delicate food items can be handled without risk of being spoiled due to crushing.





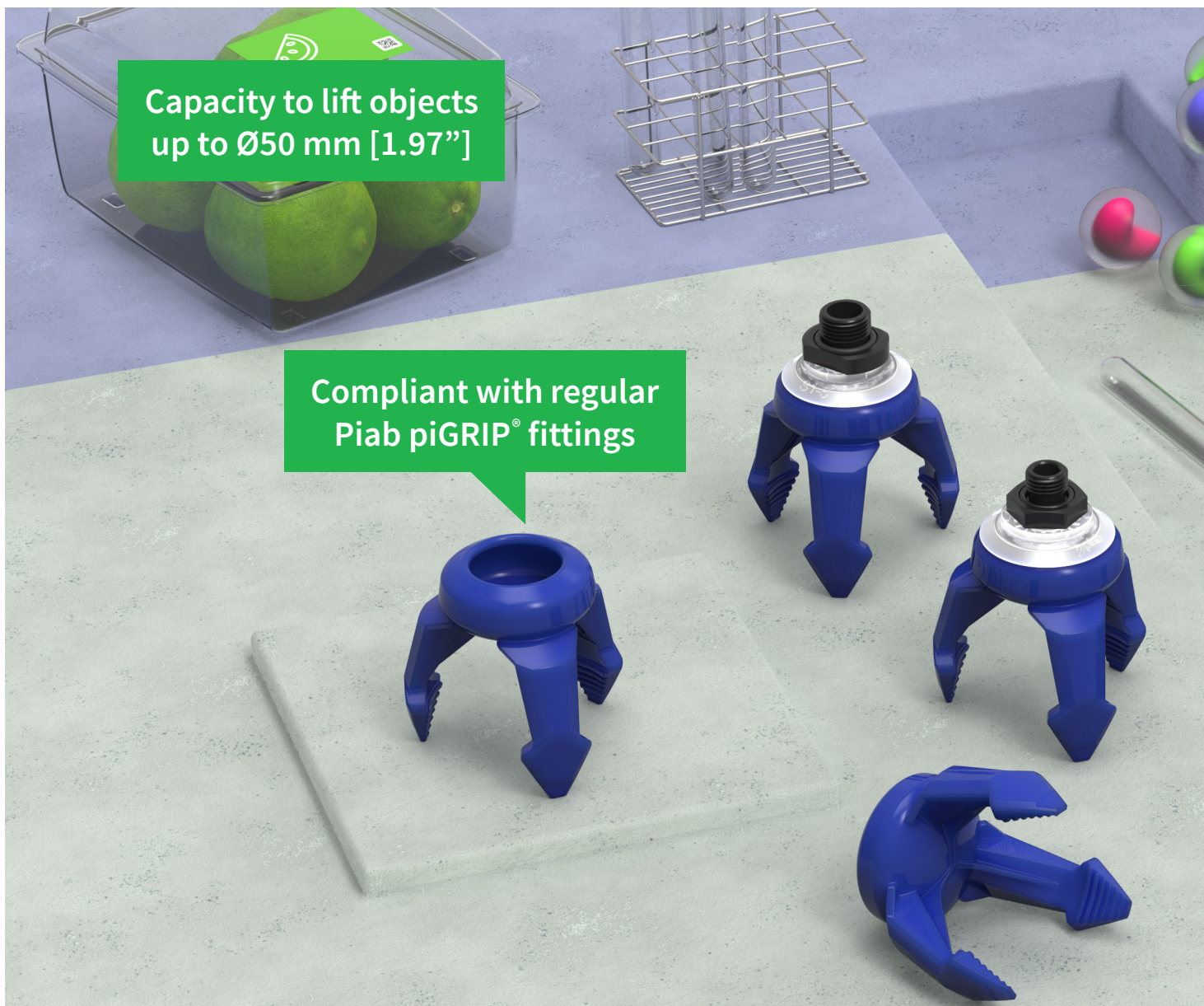


## Great gripping solution for sensitive and fragile objects

piSOFTGRIP® is an excellent and cost-effective solution for sensitive and fragile objects.

The gripping force can easily be controlled by simply adjusting the vacuum level. The soft gripper can grip objects with a diameter of up to 50mm [1.97"]. Larger models will be introduced at a later stage.





## Easy to use and control

The soft gripping vacuum tool is as easy to control and install as a suction cup, and it uses the same fittings as Piab's popular piGRIP® suction cups. An optional stainless-steel fitting offers wash-down provision to assist cleaning. Its intuitive and user-friendly design makes piSOFTGRIP® easy to integrate into automated procedures, where it can help to secure the quality of products and increase overall productivity.

The silicone-made piSOFTGRIP® vacuum gripper is also a lightweight automation tool, which means that very little extra weight is added when fitted to robot arms. It has a building height of approximately 80 mm [3.15"], allowing it to be used even where space is limited.

Combined with Piab's end-of-arm vacuum tool piCOBOT®, the piSOFTGRIP® offers a powerful and flexible "plug and play" extension for collaborative robots. As both piCOBOT® and piSOFTGRIP® offer compressed air saving functionality (ES), virtually no energy is needed to perform a grip and release. The handy and application-friendly soft gripper is already UR certified for such use.

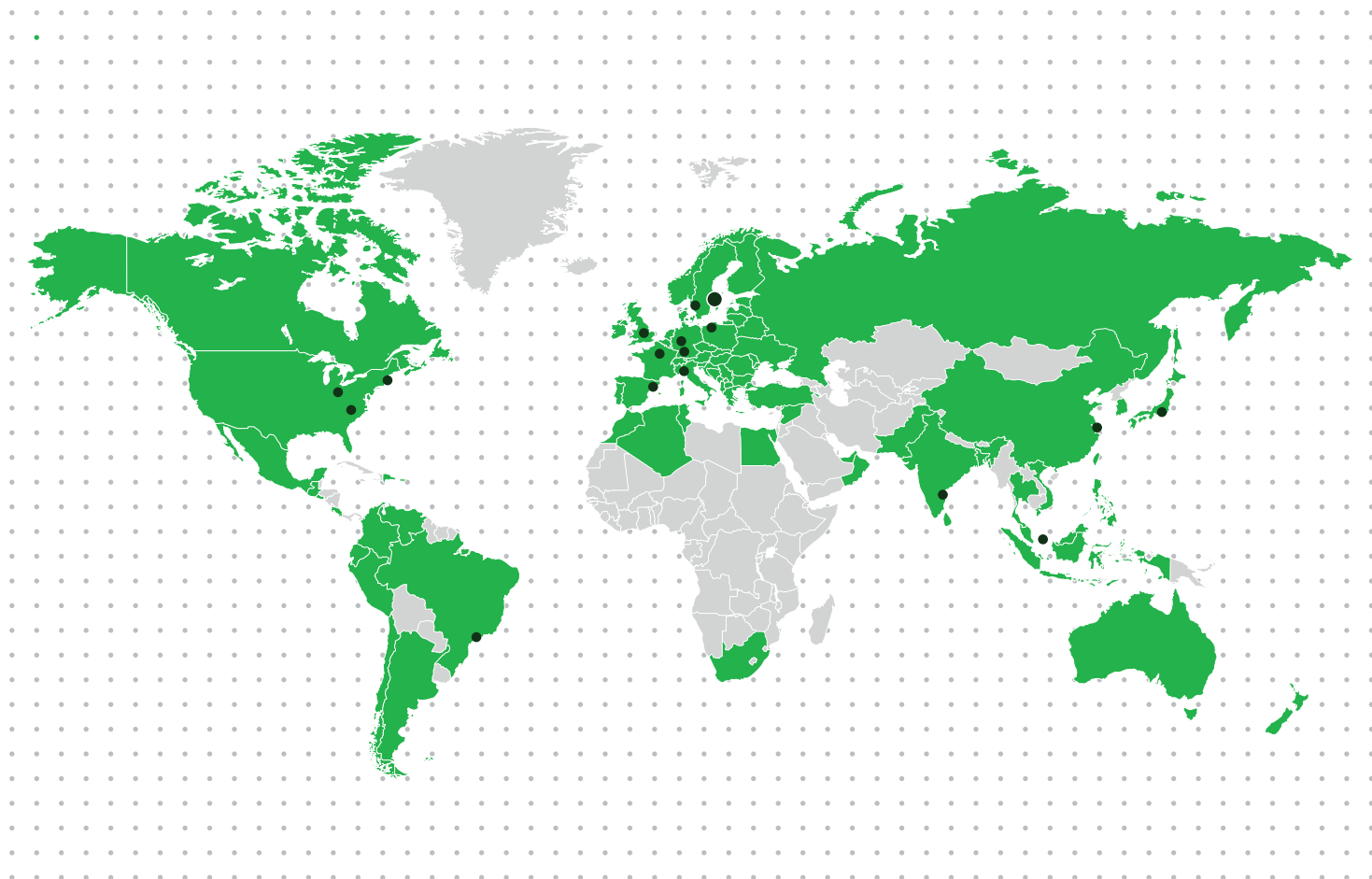
- Vacuum driven soft gripper with simple and robust design
- Cost effective solution for sensitive and delicate objects
- Intuitive and user-friendly design
- As easy to control and install as a suction cup
- Material is food compliant and detectable





| Description              | Unit           | Value                                 |
|--------------------------|----------------|---------------------------------------|
| Building height          | mm / [inch]    | 78 / [3.07] (with G3/8" male fitting) |
| Outer diameter           | mm / [inch]    | 72 / [2.83]                           |
| Weight                   | g / [oz]       | 55 / [1.94] (with G3/8" male fitting) |
| Temperature range        | C° / [F°]      | -20-100 / [-4-212]                    |
| Recommended vacuum level | -kPa / [-inHg] | 25-70 / [7.5-21]                      |
| Recommended object size  | mm / [inch]    | 20-50 / [0.79-1.97]                   |
| Recommended max payload  | g / [lb]       | 250 / [0.55]                          |





# Piab around the world

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