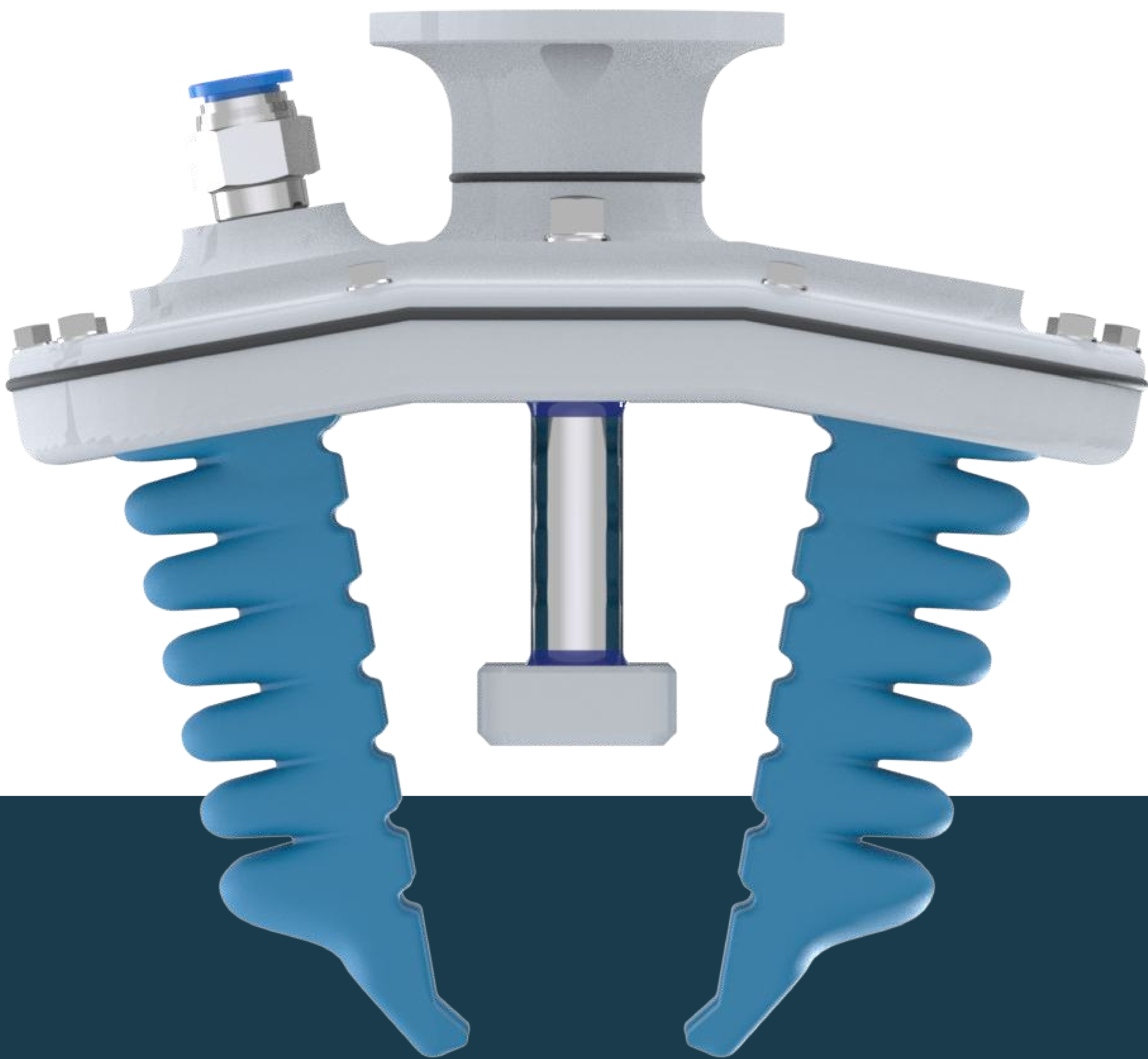




FiletGripper



Gentle in grip.
Powerful
in performance.

Developed in partnership with Peruza, our customized gripping solution is designed to tackle the challenges of protein automation — from handling delicate fish fillets to managing complex meat cuts.

Engineered to meet customer needs.

Protein Handling – a challenge for automation

Automated handling of protein is among the most complex tasks in the food industry. The main reasons are variable product geometry, delicate surfaces, and strict hygiene requirements.



Fillets of fish, poultry, or beef are soft, slippery, and highly inconsistent in shape and size. Their smooth surface complicates gripping: either adhesion is insufficient, or too much force risks damaging the product.

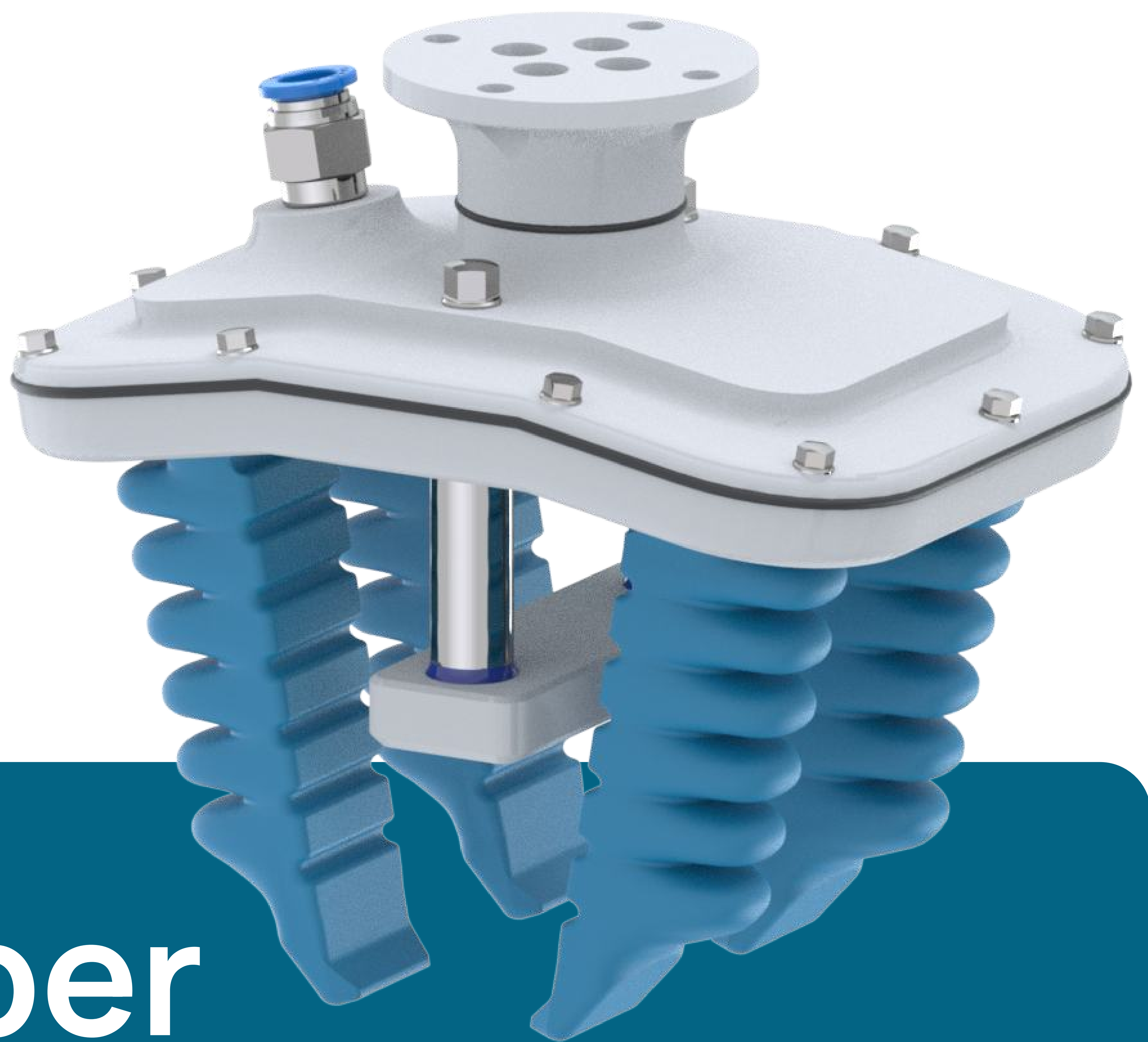


In addition, strict hygiene standards apply: all contact surfaces must be food-safe, easy to clean, and suitable for continuous operation.

Conventional grippers quickly reach their limits. They cannot handle products reliably without risking damage or process disruptions. A form-fitting yet gentle grip therefore remains the central challenge.

The Solution

Developed in collaboration with our partner Peruza, the SoftGripping Filet Gripper was engineered specifically to overcome the toughest challenges of protein automation.



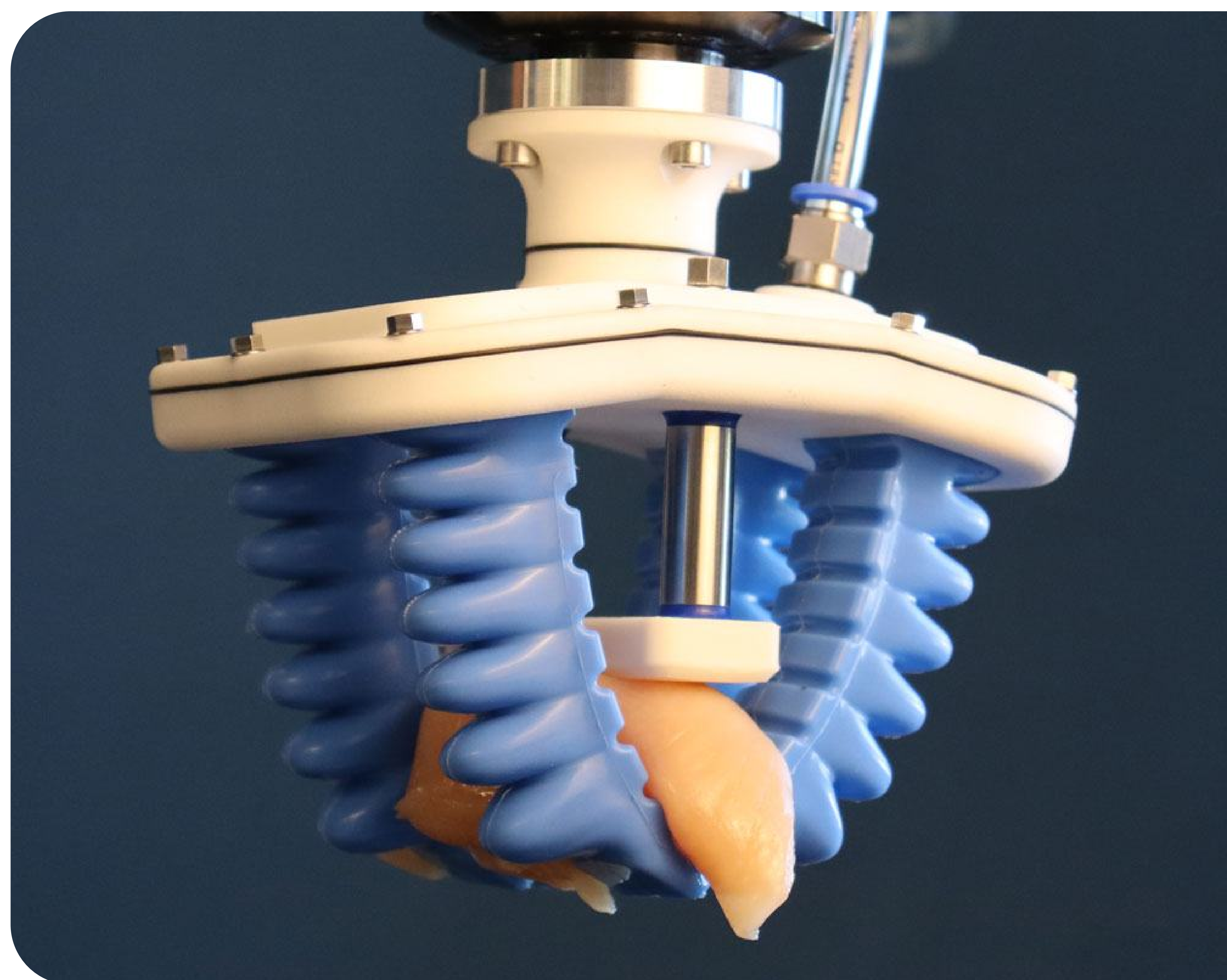
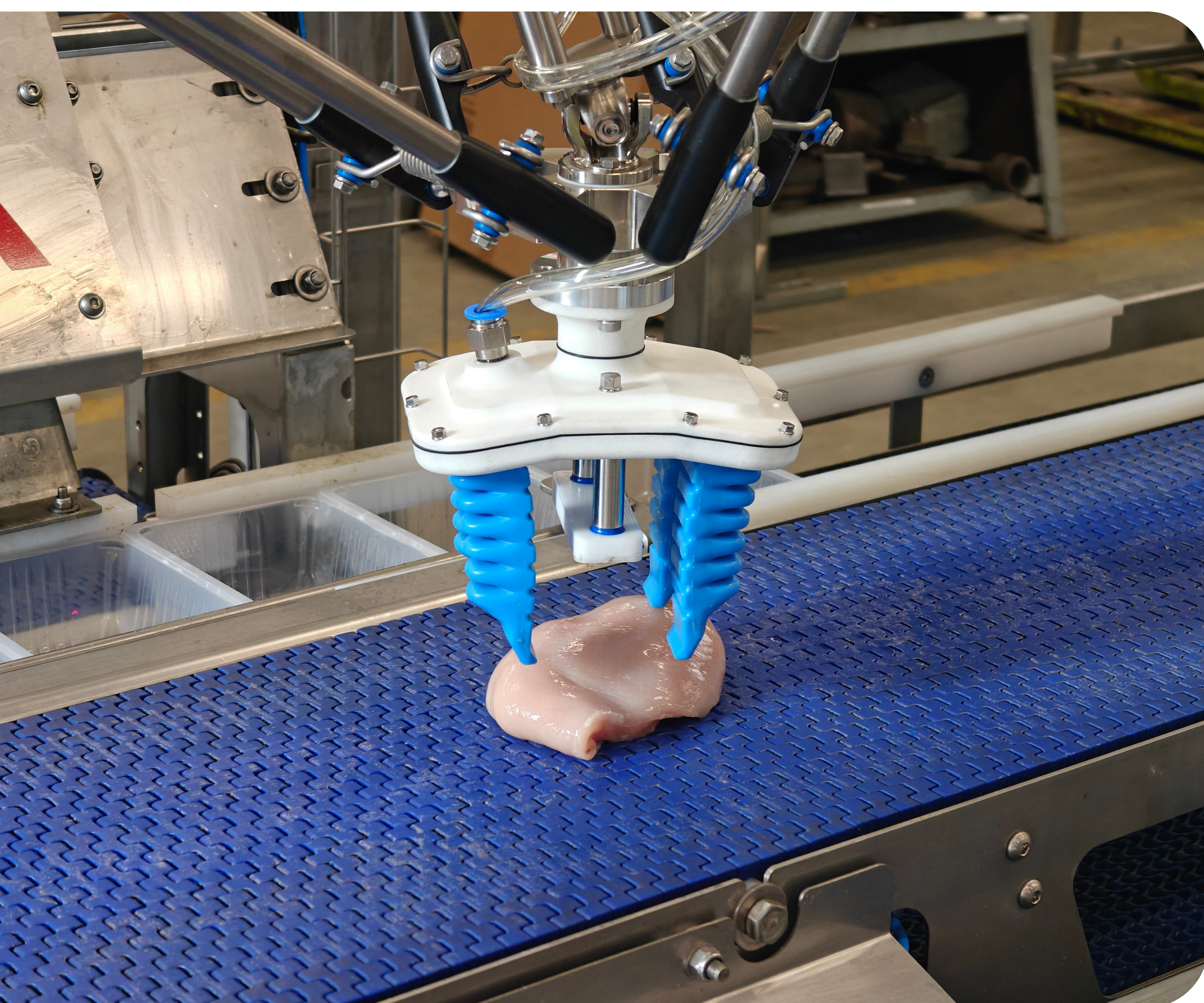
FiletGripper

At the heart of the solution are the **GorillaFingers**: highly flexible and adaptive gripper fingers that naturally conform to the unique shape of each product. Whether handling delicate fish fillets or irregular cuts of meat, the GorillaFingers ensure a secure, form-fitting grip that remains gentle on the product surface.

Even slippery and flat fillets can be picked up reliably thanks to the intelligent design with small “fingernails” at the tips. By optimizing the flow of force, the product is guided upwards into the gripper, where it is held securely by a counterholder—ensuring perfect placement, cycle after cycle.

Made from food-grade materials and designed with hygiene in mind, the Filet Gripper combines safety, efficiency, and gentle handling in one solution. This makes it the ideal choice for processors looking to automate protein handling without compromise.

One Gripper. Many Applications.



A single gripper, multiple use cases.

Fish fillets
(salmon, cod, tuna,
fish steaks/disks)

Red meat fillets
(beef, pork, lamb, veal
as steaks, strips,
medallions)

Poultry fillets
(chicken and turkey)

Rib cuts
(including irregular
bone-in pieces)

Key Advantages

1

Low-profile gripping:

specially developed to pick up flat filet pieces and scrape them from surfaces with ease.

2

Inclined fingers:

guide the filet gently into the gripper “palm” for a secure and stable hold.

3

Gentle handling:

no pressure marks, even at high speeds and accelerations.

4

Versatile design:

interchangeable spacers allow easy adaptation to different filet types and sizes.

5

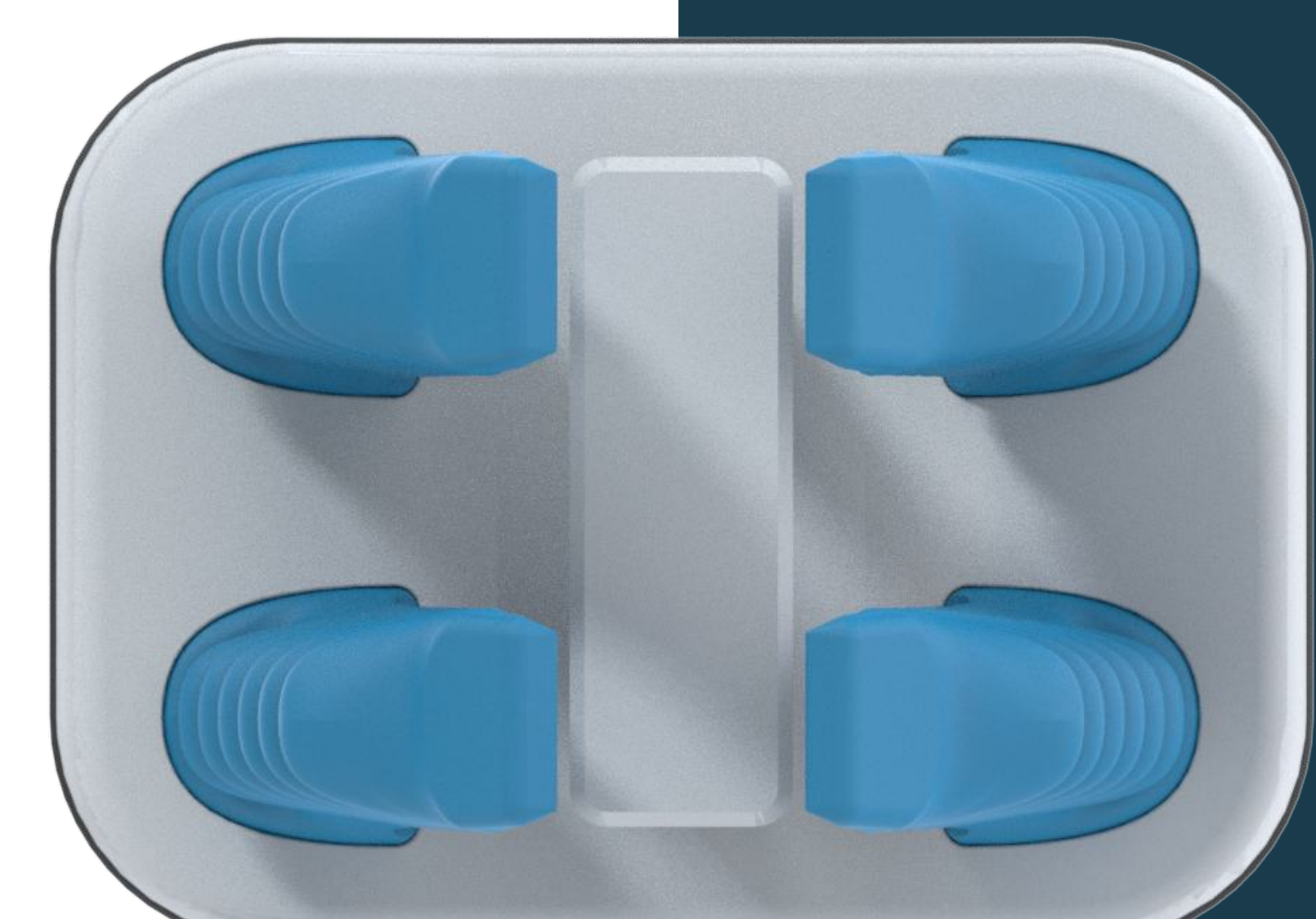
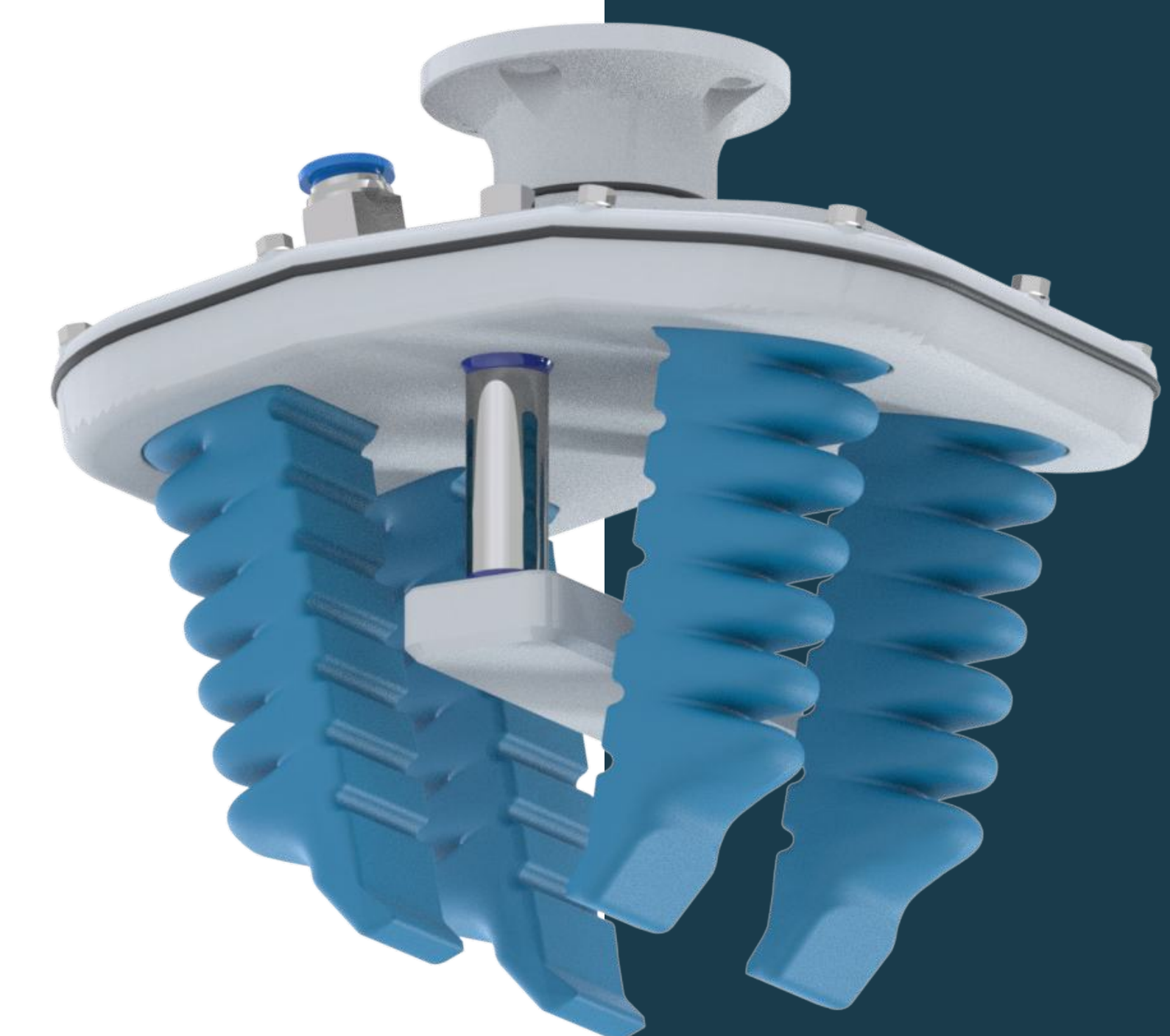
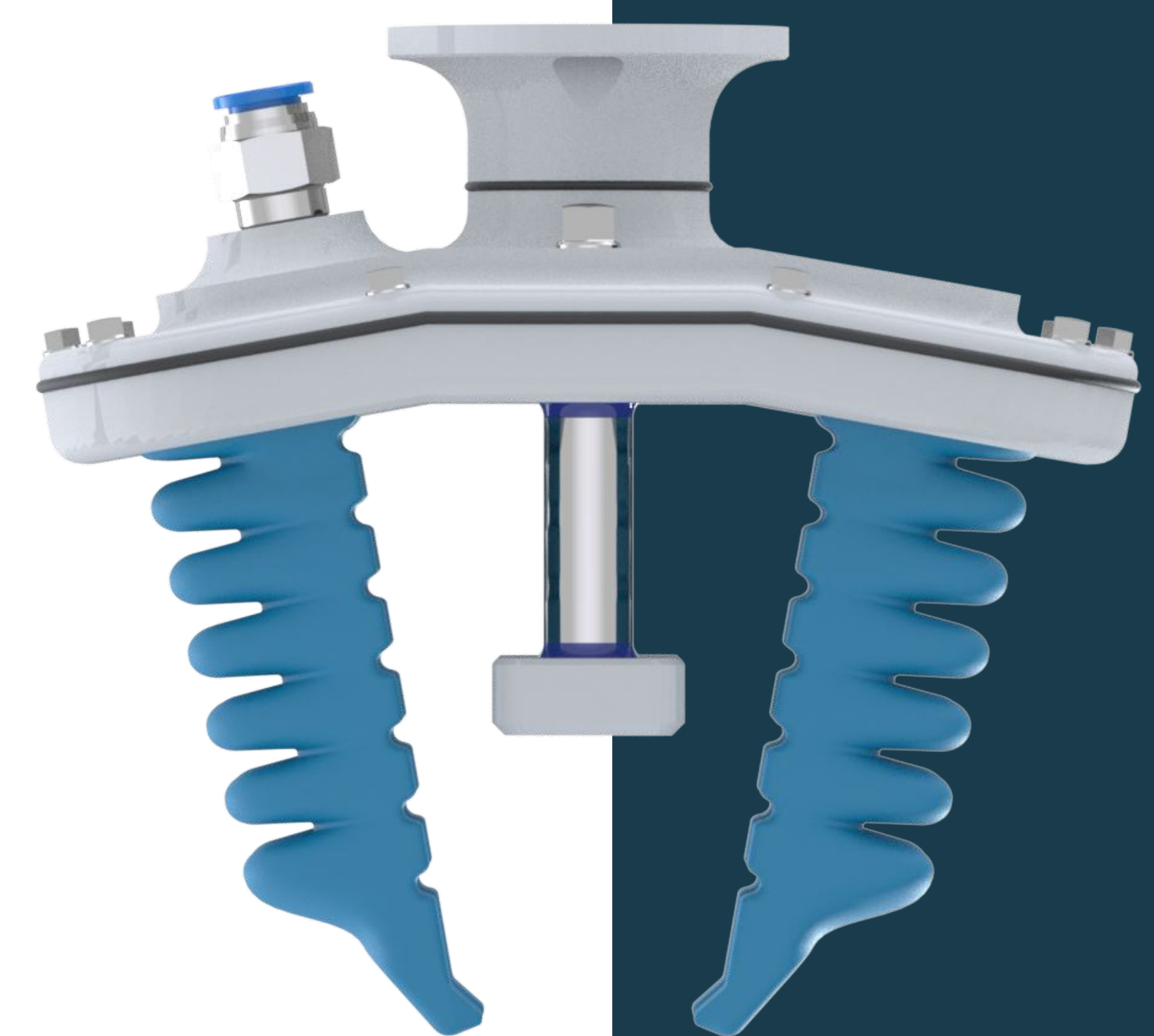
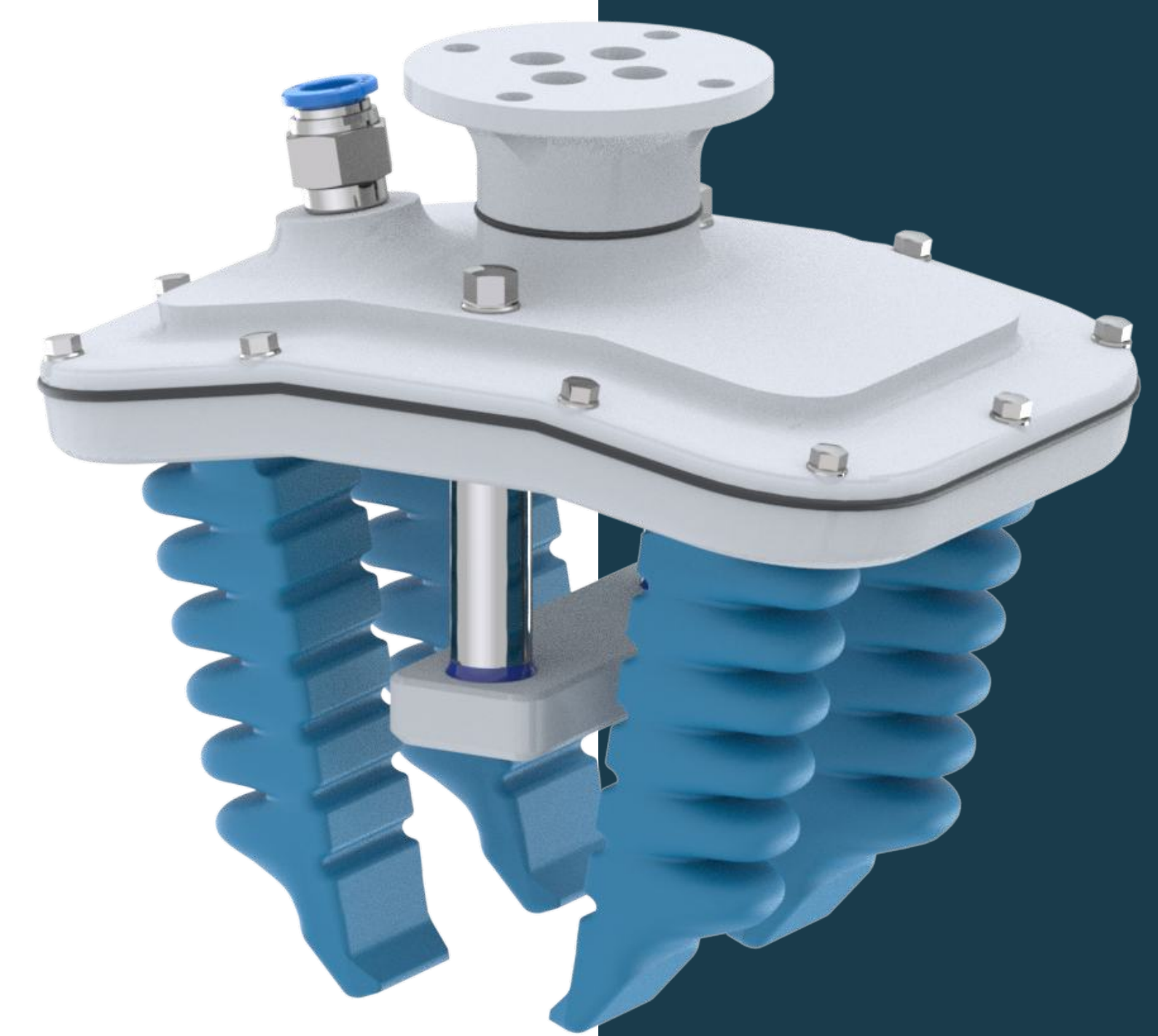
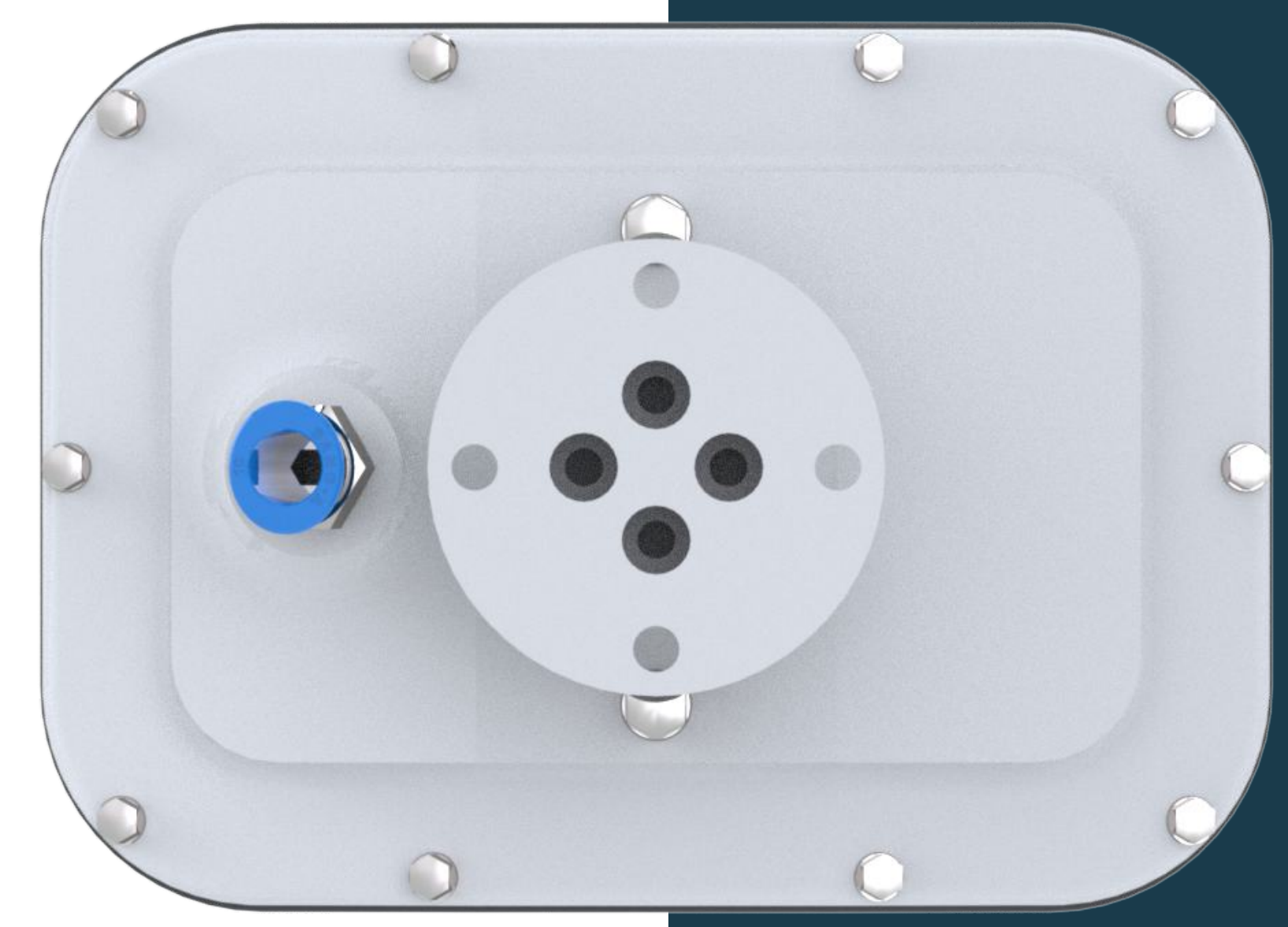
Hygienic by Design:

fully washable, made from food-grade materials, and CIP-compatible.

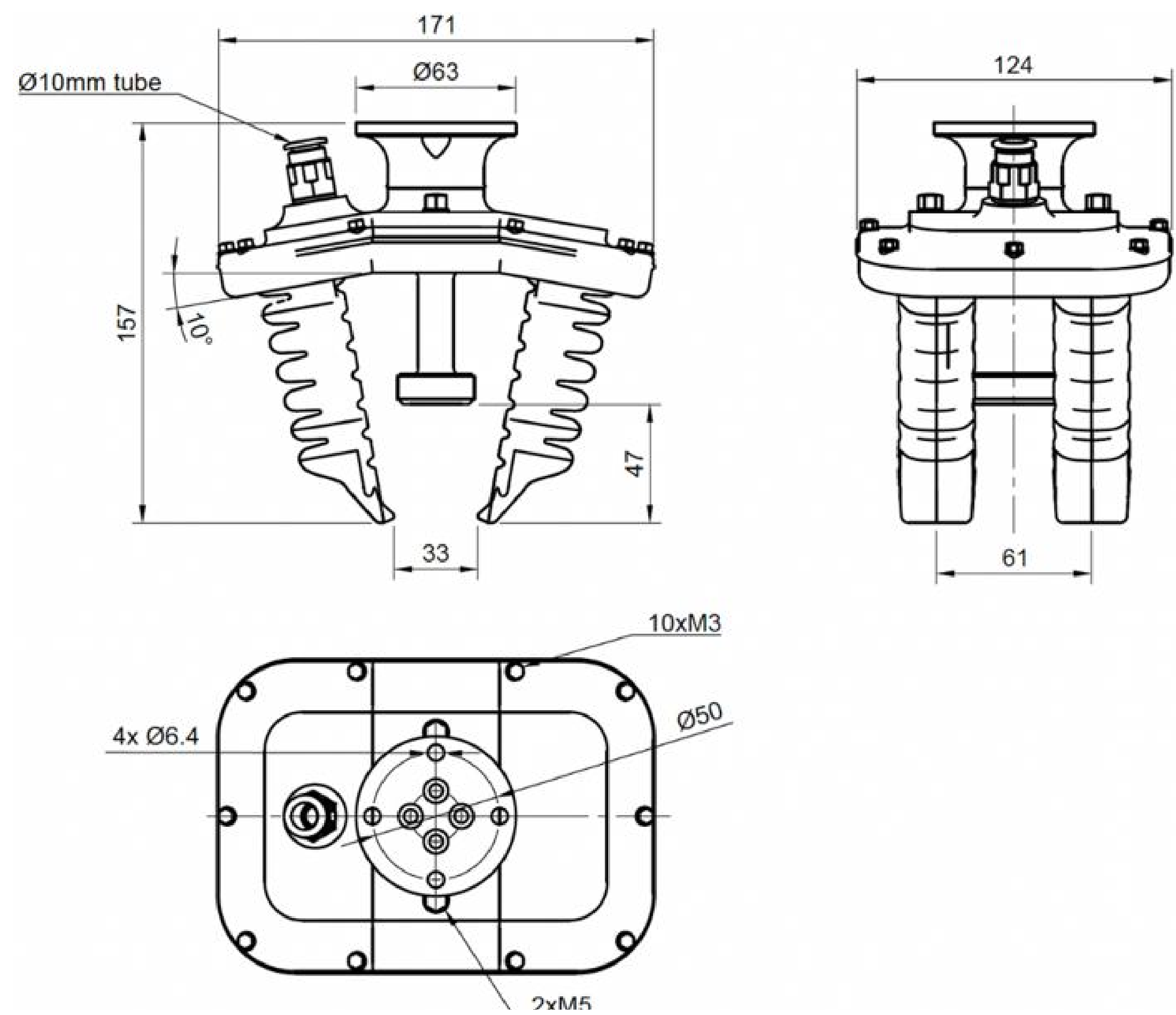
6

Plug & Play integration:

works seamlessly with SCARA, Delta, and 6-axis robots for fast deployment.



FiletGripper Art.Nr.: SG.IG.F4.FG01



General technical data

Total weight	768 g
Finger count	4
SoftActuator	GorillaFinger
Arrangement	Parallel
Actuation	Pneumatic
Pneumatic tube	ø 10 mm
Material Base	PA2200 FDA ¹
Material Finger	Silicon FDA
Mounting	ISO 9409-1-50 M6 ²

¹ Direct food contact option possible

² Adapter to ø31,5 & 40 available

Gripping parameters

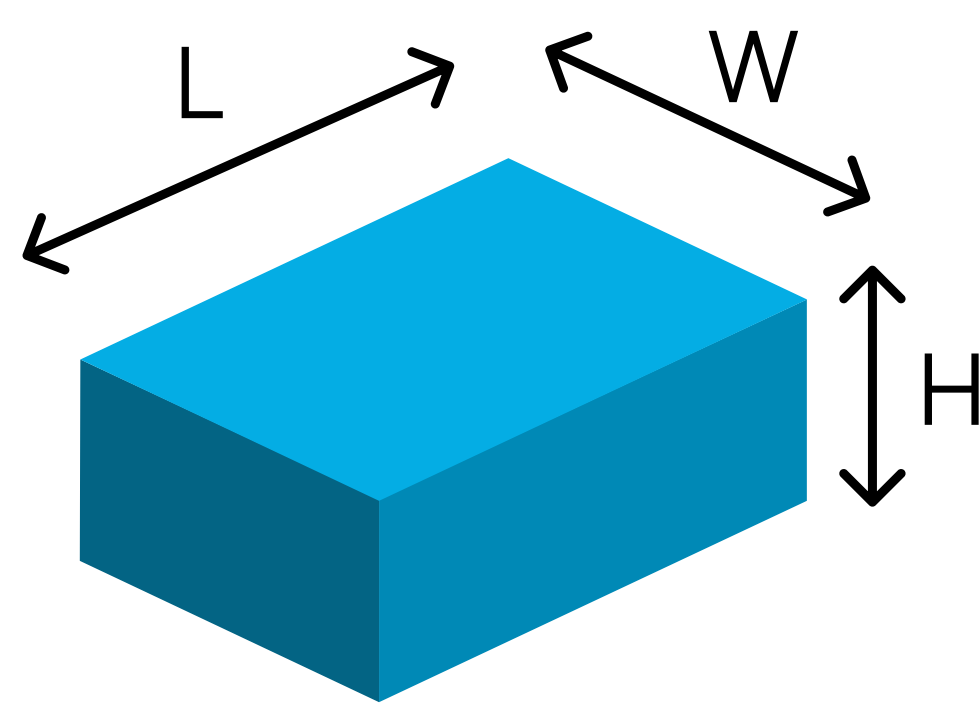
Block force (at 1 bar)	18 N
Opening time	70 ms
Closing time	70 ms
Full cycle time	140 ms
Maximum Pick Rate ³	up to 94 picks/min
Suggested Pick Rate	60 picks/min
Maximum load	1,83 kg

Operating conditions

Pressure range	-0.3 ... 1.2 Bar
Ambient temperature	-25 °C ... +80 °C
Pneumatic Controlbox	Controlbox

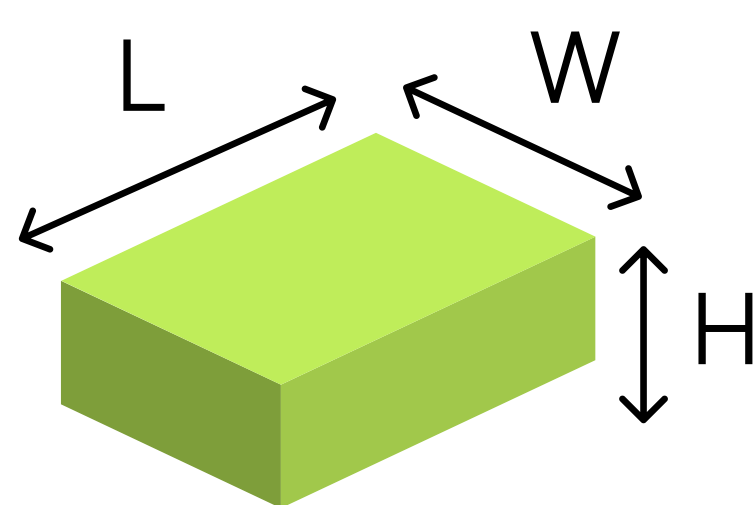
Object Dimensions

Maximum



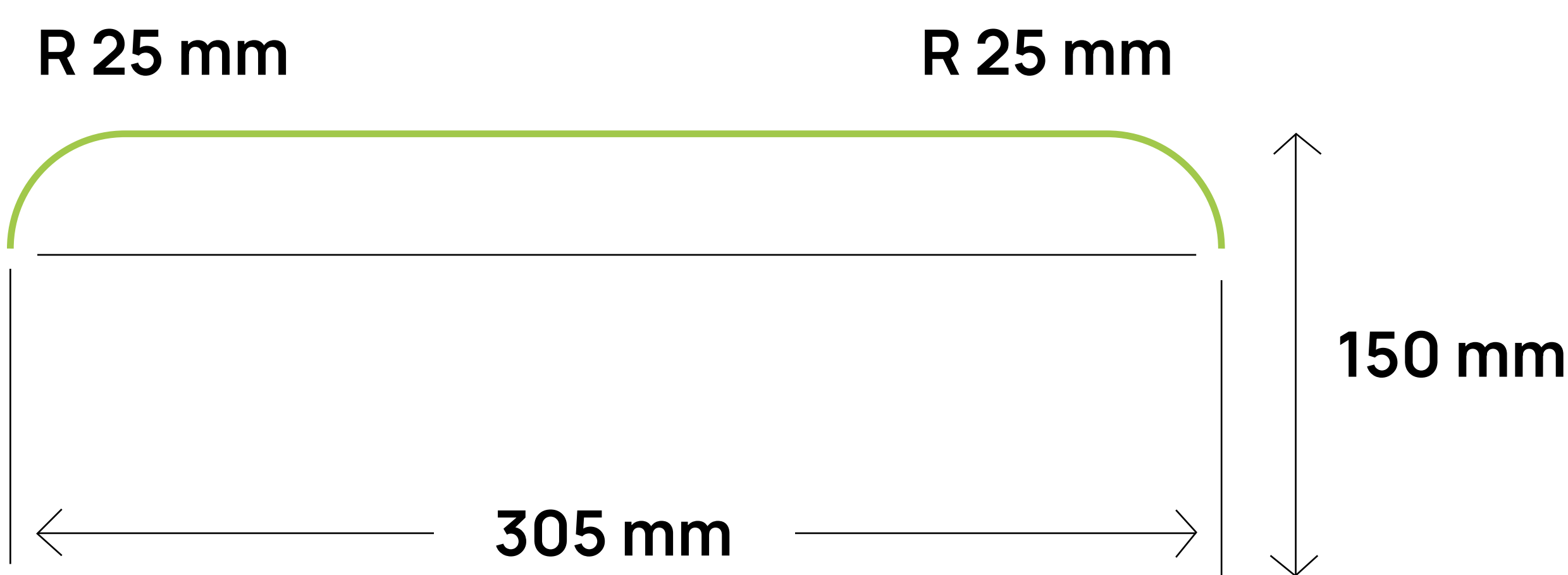
200 x 100 x 50 mm
(LxWxH)

Minimum



65 x 20 x 15 mm
(LxWxH)

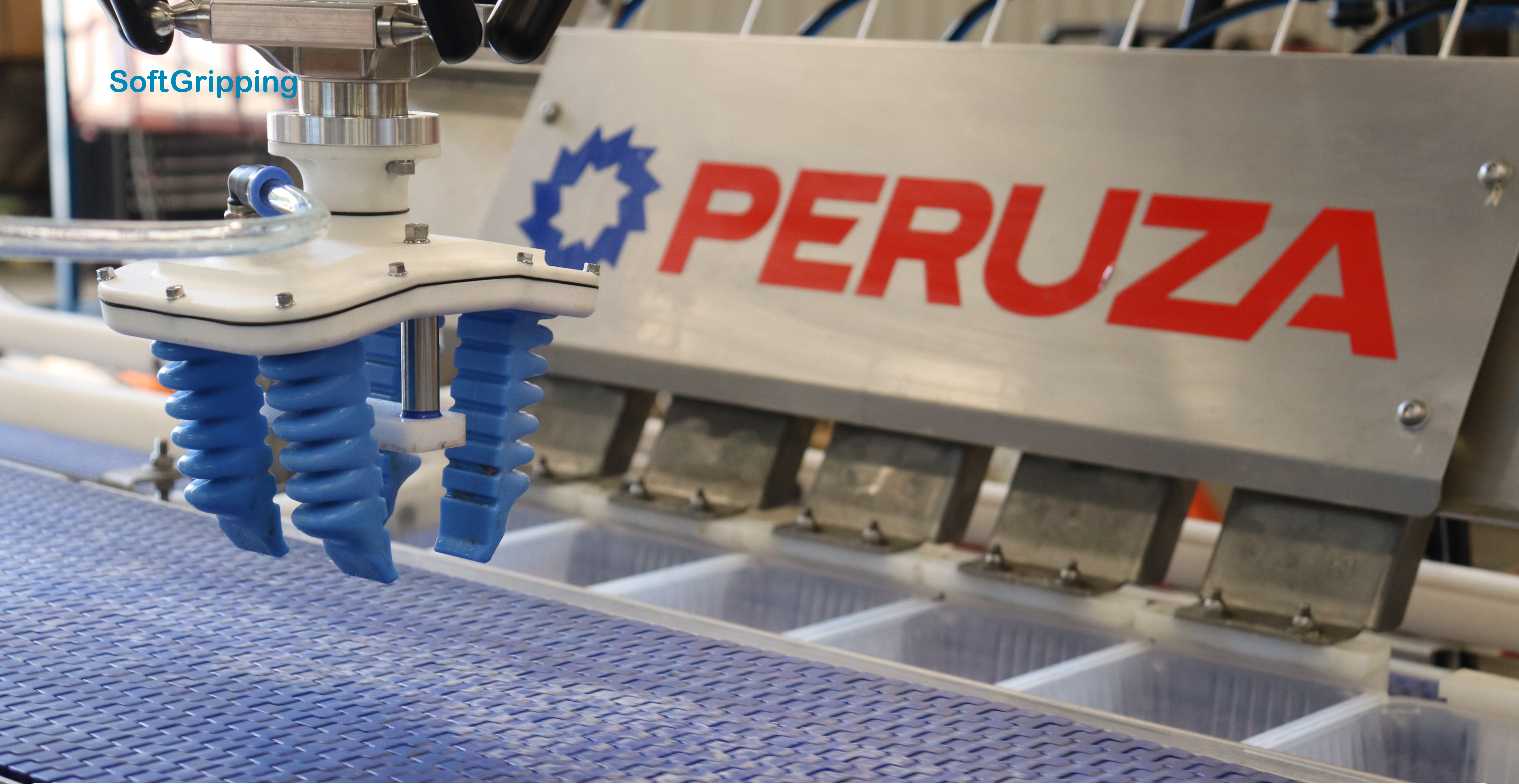
Standard scenario & robot



Measurements
R 25 mm / 305 mm / R 25 mm

Suggested robots: Delta, SCARA or 6-axis robot arm

³ The maximum pick rate is based on the standard scenario and average speeds from Delta, SCARA, and 6-axis robot arms: Omron Quadro ix4-800H, KUKA KR 12 R650 Z200, Mitsubishi RV-12CRL-D-S15, and ABB IRB 1300-12/1.4. Actual values depend on the applica.on and robot.



SoftGripping

Let's engineer the perfect gripper – together.

We support OEMs, integrators, and food producers with:

Custom gripper
development

CAD modeling
and feasibility
testing

Fast adaptation
for product trials



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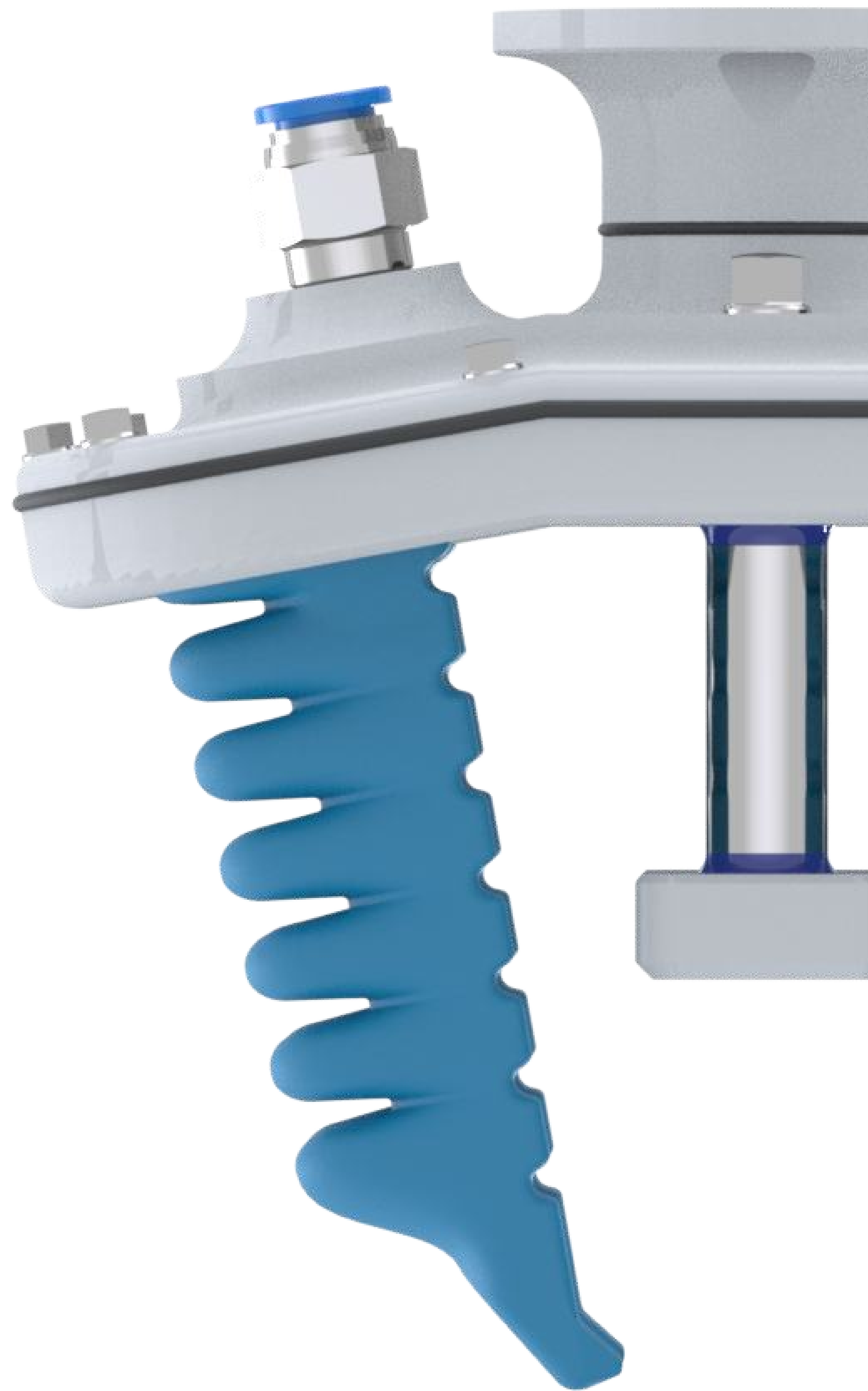
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<https://www.robot-pros.com>



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