



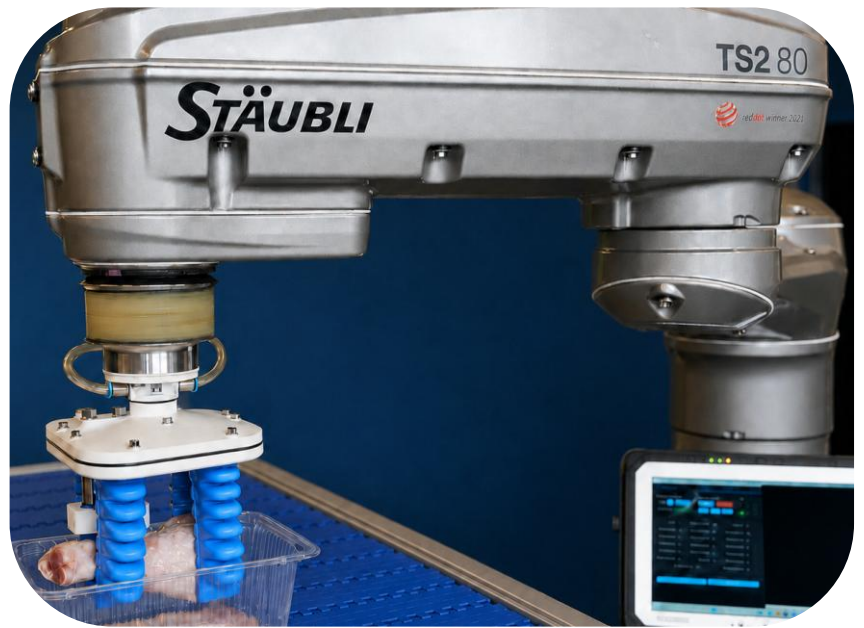
USE CASE Poltry Industry

The automated handling of chicken drumsticks is a challenging task in the poultry industry. Different sizes, irregular shapes, moist surfaces, and delicate skin make reliable gripping difficult in fast production processes.

The SoftGripping chicken drumstick gripper was specifically developed to meet the requirements of meat and poultry processing.

From sorting and transferring to packaging, tray loading, and pick-and-place applications, SoftGripping gripper technology enables the efficient automation of chicken drumstick handling — reliable, gentle on the product, and flexibly adaptable to different product sizes, process requirements, and production lines in the poultry industry.

Flexible GorillaFingers gently wrap around the chicken drumstick and adapt to its natural product shape. This creates a secure, form-fitting grip without applying concentrated pressure to the skin or meat. An integrated spacer supports the stable positioning of the drumstick throughout the entire pick-and-place process.

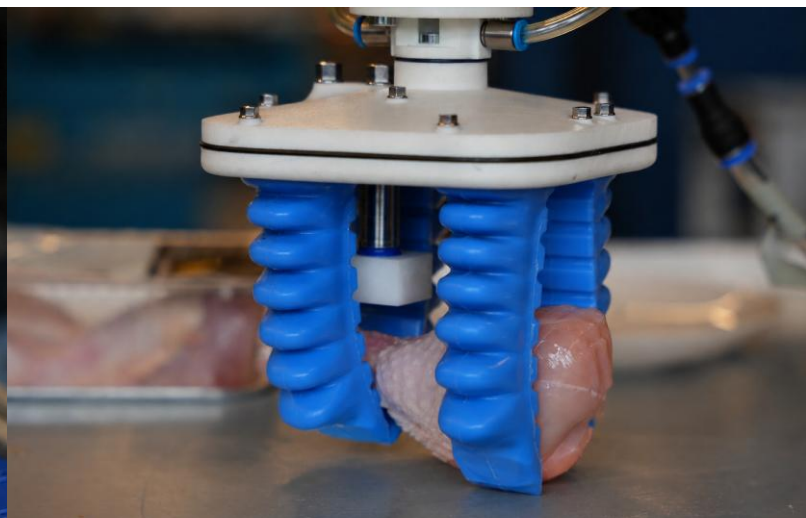
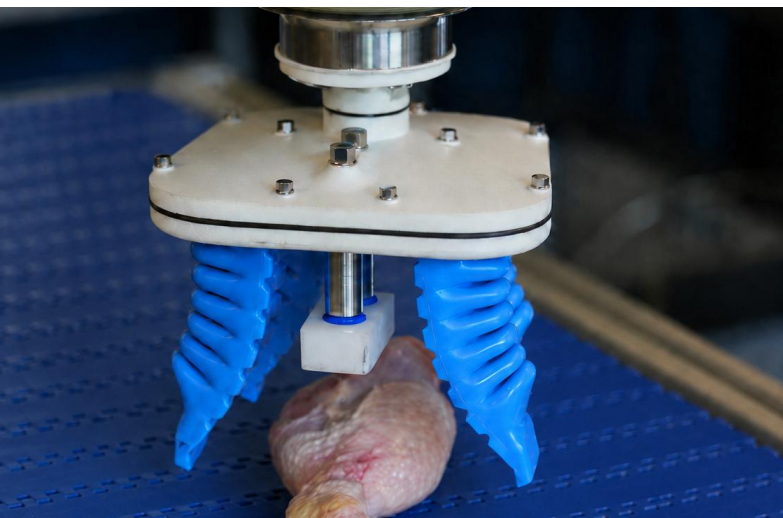


Drumstick Gripper

Thanks to food-safe materials and a hygienic design, the gripper is ideally suited for use in modern production lines in the food industry.

The simple integration into robot-assisted systems enables the rapid implementation of automated gripping, sorting, and packaging processes.

In combination with the SoftGripping Control Box, the gripping process can be precisely controlled: finely tuned pressure profiles, a configurable pressure boost, and intuitive software control support fast, reliable, and product-friendly pick-and-place processes.

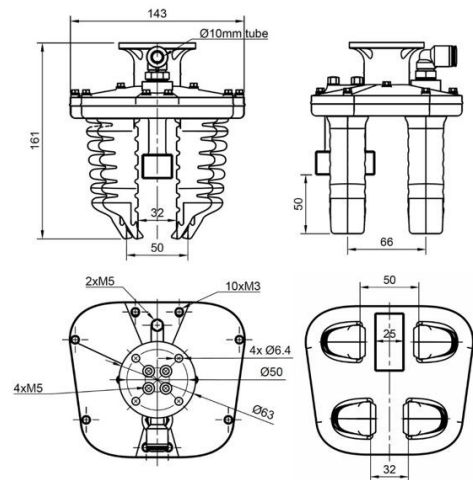


Your Benefits at a Glance

- 1 Gentle Gripping:**
soft fingers securely hold chicken drumsticks, without damaging the skin.
- 2 Ideal for Products with Skin:**
flexible gripping surfaces avoid localized pressure unlike suction cups or rigid grippers.
- 3 Secure Hold:**
the GorillaFingers adapt to the drumstick shape and leave no pressure marks.
- 4 Stable Positioning:**
the spacer keeps the drumstick securely in position throughout transport.
- 5 Flexible Use:**
suitable for different sizes and shapes of chicken drumsticks.
- 6 Hygienic Design:**
made from food-safe materials, easy to clean and maintenance-friendly.
- 7 Simple Integration:**
lightweight, robust design for automated pick-and-place processes.



Drumstick Gripper: Art.Nr.: SG.AG.F4.DS01

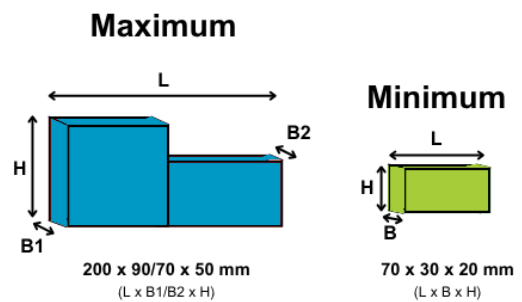


General technical data

Total weight	653 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

¹Direct food contact option possible ²Adapter to Ø31,5 & 40 available

Object Dimensions



Gripping parameters

Block force (at 1 bar)	18 N
Opening time	80 ms
Closing time	70 ms
Full cycle opening time	141 ms
Full cycle closing time	120 ms
Maximum Pick Rate ³	up to 91 picks/min
Suggested Pick Rate	45 picks/min
Maximum load	1,83 kg

Standard scenario & robot



Standard pick and place scenario measurements:
R 25 mm / 305 mm / R 25 mm

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

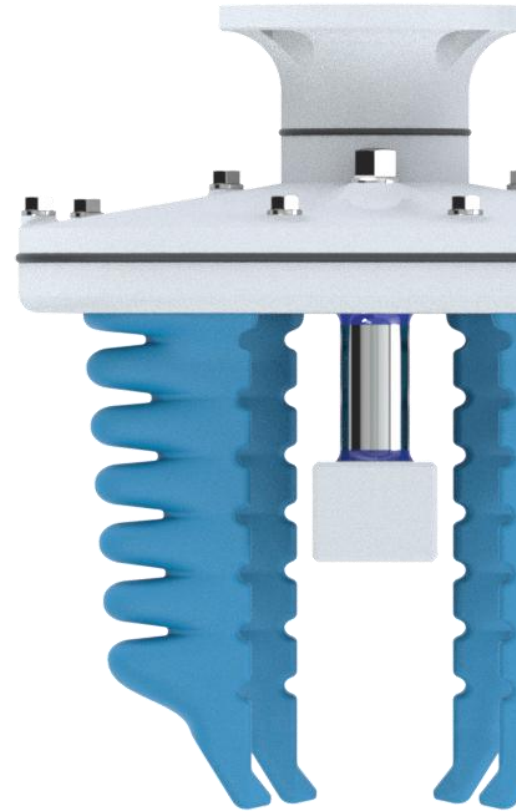
³The maximum pick rate is based on the standard scenario and average speeds from Delta, SCARA, and 6-axis robot arms: Omron Quadro ix4-800H, KUKA KR 12 R650 Z200, Mitsubishi RV-12CRL-D-S15, and ABB IRB 1300-12/1.4. Actual values depend on the application and robot.

Operating conditions

Pressure range	-0.3 ... 1.2 bar
Ambient temperature	-25 C ... +80 C
Pneumatic Controlbox	New Controlbox



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