

Monolithic compliant Gripper

System: monolithic, pneumatic driven gripper with distributed compliance

Functional principle:

- hyper elastic material - silicone – enables required compliance of the hollow space mechanism/gripper
- special adjusted design for the profile of a quail egg supports the gripping process
- the gripper opens during increasing pressure inside of the hollow space

Characteristics and advantages:

- elementary assembly enables one step manufacturing
- safety function: at zero pressure the gripper does not lose the picked up items
- the motion range of each grappler is optimized for maximum opening angle of about 70°
- adaptive gripping for different shaped items
- highly grip force in spite of huge compliance
- scalable grip force



Application:

- outside-gripper
- for sensitive picking of thin-skinned, damageable items, e. G. eggs

