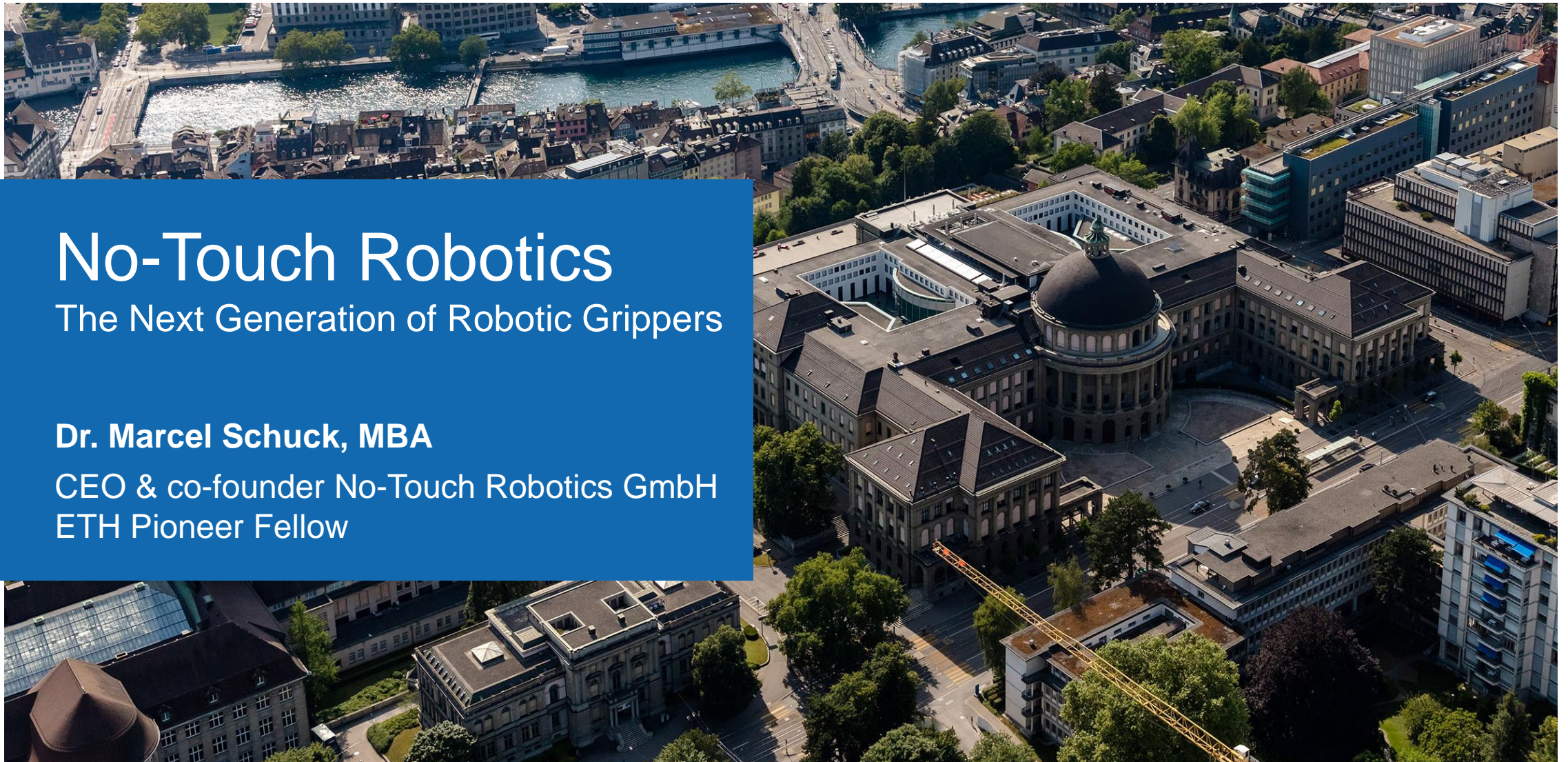


No-Touch Robotics

The Next Generation of Robotic Grippers

Dr. Marcel Schuck, MBA

CEO & co-founder No-Touch Robotics GmbH
ETH Pioneer Fellow

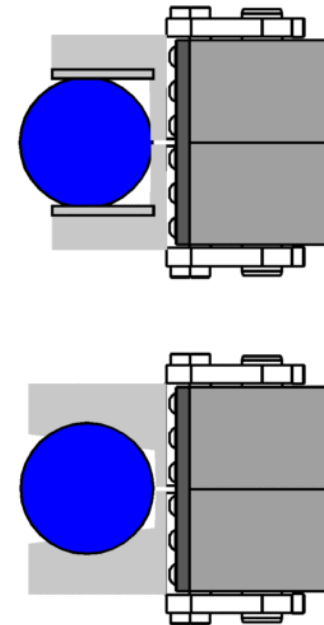
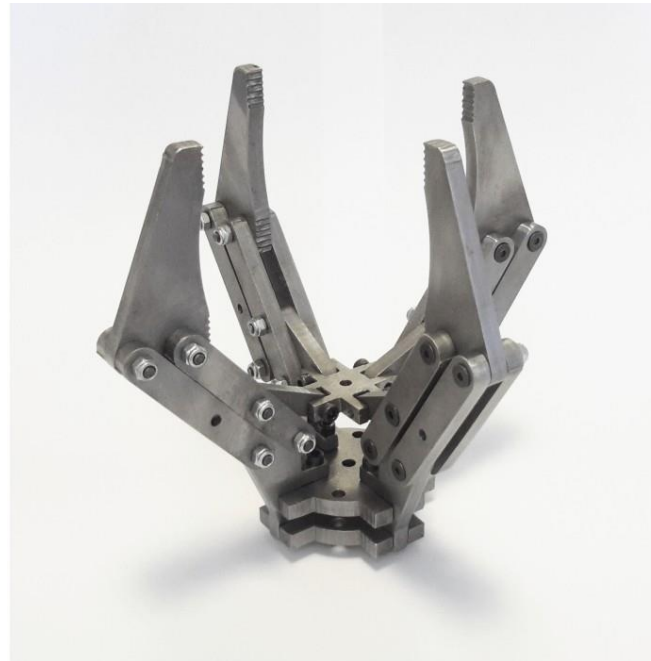


Current Robotic Grippers Lag the Miniaturization Trend



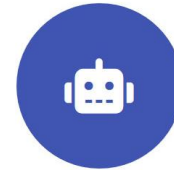
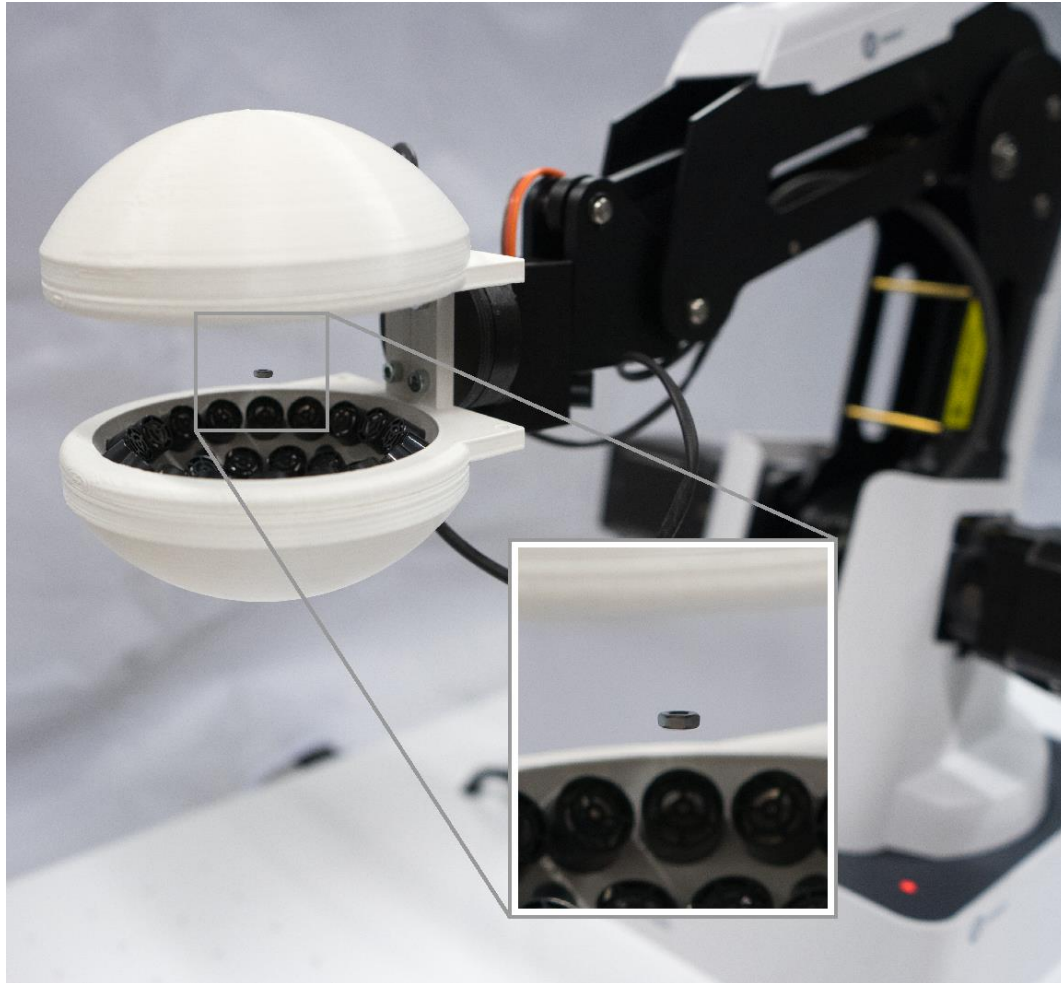
I The Information

“What Apple Learned From Automation: Humans Are Better”



→ Contact-based gripping is unsuitable for small objects

Solution: Contactless Gripping Using Ultrasonic Waves



GRIP OBJECTS WITHOUT TOUCHING THEM

Automate processes that had to be performed manually before.



SAVE TIME AND MONEY

The same gripper can be used for a variety of object shapes.



INCREASE QUALITY AND YIELD

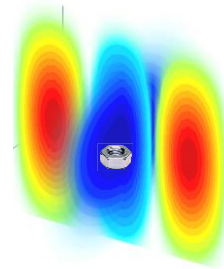
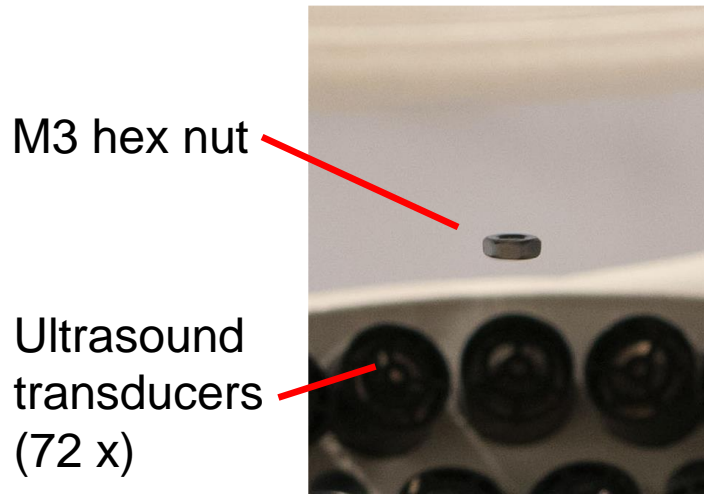
Damage and contamination-free handling of precious components.



IMPROVE ENVIRONMENTAL FOOTPRINT

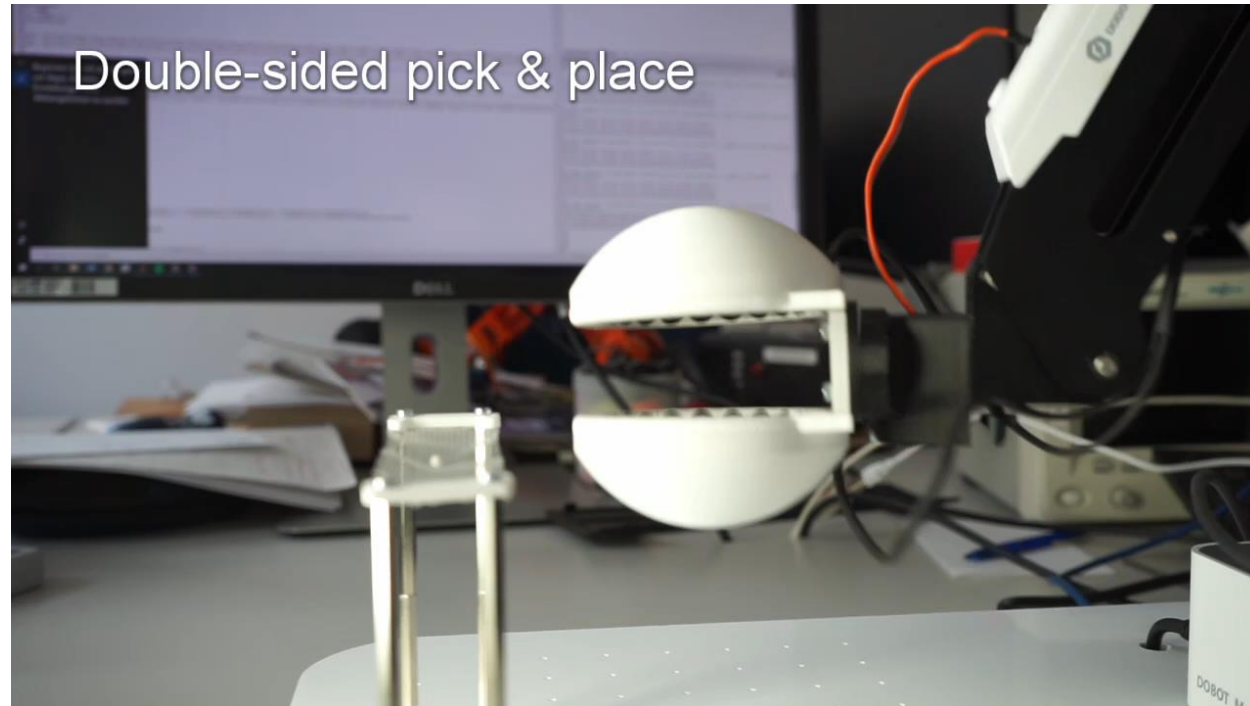
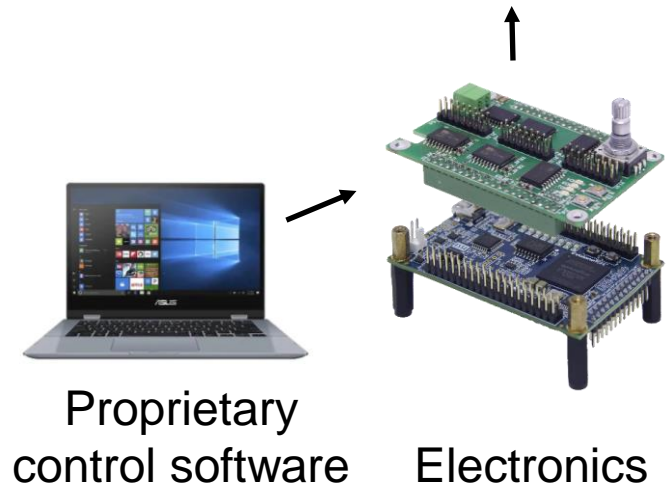
Reduced production rejects.

Mechatronic System for Precise Force Generation






Acoustic pressure distribution
→ levitation forces

Object size	< 8 mm
Mass	< 250 mg
Accuracy	$\leq 100 \mu\text{m}$
Range	$\pm 30 \text{ mm}$



Plattform Technology With a Wide Range of Applications

	Micromechanics & Watchmaking 	Semiconductor Industry 	Life Sciences 
Automate manual processes	✓		
Contamination and damage free	✓	✓	✓
Variable shape components	✓		
Fluid handling/dispensing		✓	✓
Improved quality & yield	✓	✓	✓
No particle generation		✓	✓
Isolation of hazardous substances		✓	✓

Thank you for your attention!

Schedule a demonstration in your use case today

Dr. Marcel Schuck, MBA
schuck@notouchrobotics.com

No-Touch Robotics GmbH
c/o ETH Zurich ieLab
STE J21
Stampfenbachstrasse 52
8092 Zurich, Switzerland

www.notouchrobotics.com