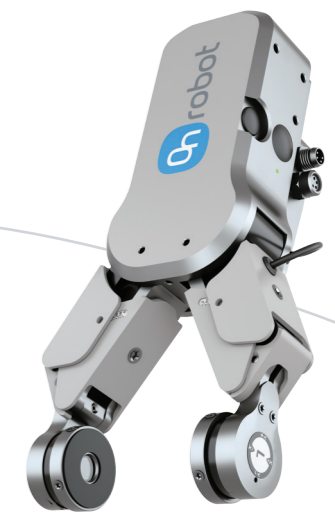


Contact your local distributor at  
[www.onrobot.com](http://www.onrobot.com)



## About OnRobot

OnRobot is a global company headquartered in Odense, the capital of the robotic cluster in Denmark. Our products are sold through a network of dedicated distributors.

[sales@onrobot.com](mailto:sales@onrobot.com)  
[www.onrobot.com](http://www.onrobot.com)

OnRobot A/S  
Teglvaerksvej 47H  
5220 Odense SØ  
Denmark  
+45 53 53 57 37



**One Stop Shop  
for End-of-Arm Tooling**  
OnRobot provides all types of gripping and sensing solutions for industrial automation



# We deliver savings, You increase your profit

OnRobot provides state of the art gripping and sensing technologies for companies interested in industrial automation. You can find all types of sensing systems for collaborative applications like assembly, surface finishing, pick and place, machine tending or testing.

It has never been easier to deploy your intelligent robot. With deployment time reduced by 30%, OnRobot products are the easy choice in short lead time projects and environments where robots are often re-deployed.

OnRobot develops gripping and sensing systems that not only operate efficiently. By using the true Plug&Produce OnRobot solutions, you get the ultimate installation and programming convenience and re-deployment has never been faster.



# POLYSKIN TACTILE GRIPPER

## Cost-effective material handling with built-in force control

- ✔ Individually actuated fingers
- ✔ Compliant tactile sensor on fingers
- ✔ Force or position controlled gripping
- ✔ 0-70 mm stroke
- ✔ Up to 400N gripping force
- ✔ Bump detection
- ✔ Thermal sensor

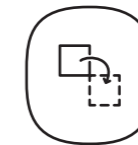
OnRobot tactile grippers provide accurate position-orientation and force data for all of your automation needs. It has the ability to assess grip quality and prevent dropping items in a cost effective way.



### APPLICATIONS



Assembly



Pick & Place

## Gripping and sensing systems designed for the ultimate installation and programming convenience



Assembly



Quality Testing & Inspection



Pick & Place



Machine Tending



Surface Finishing:  
Deburring, Grinding, Polishing



Packaging & Palletizing

### TECHNICAL DETAILS

#### SPECIFICATION OR FEATURE

#### VALUE / COMMENTS

#### GRIPPER

Total stroke	0-70mm
Grip force range	10-400 N (total for both fingers)
Maximum Payload	10 kg, but also depends on coefficient of friction
Holds part on power loss?	Yes

#### SENSORS

Sensitivity	0.3 N
Thermal Sensing	-20 to 125 °C

Compatible with **Universal Robots, Kawasaki**



# GECKO GRIPPER

## Attach like a gecko and automate more

- ✔ Grabs with gecko-style adhesive
- ✔ Picks up flat objects without air system
- ✔ Can lift solid or porous objects
- ✔ Instantaneous gripping
- ✔ Integrated load sensor for precise gripping
- ✔ Proximity sensor – part presence

The nature inspired OnRobot gecko technology makes it possible to attach and lift any kind of flat and smooth surfaces. Fast and easy gripping technology for pick & place applications.

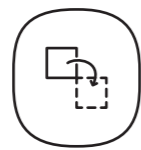


Nature Inspired Technology

### APPLICATIONS



Packaging & Palletizing



Pick & Place

### TECHNICAL DETAILS

MAXIMUM PAYLOAD IN KG	POLISHED STEEL / ACRYLIC/ GLASS/ SHEET METAL
Food grade environment	4.1 / 4.1 / 3.3 / 3.1
Other environments - with Cleaning System	1.6 / 1.6 / 1.3 / 1.3
SPECIFICATION OR FEATURE	VALUE / COMMENTS
<b>GRIPPER</b>	
Holds part on power loss?	Yes
Proximity sensor range	0-260mm
<b>PAD</b>	
Change-out interval	100,000 cycles

Compatible with **Universal Robots, Kawasaki**



# RG2 AND RG6 GRIPPERS

## Plug&Produce grippers for higher ROI

- ✔ No external cables
- ✔ Adjustable gripper mounting
- ✔ Gripping feedback
- ✔ Automatic payload and TCP calculation
- ✔ Depth compensation
- ✔ Customizable fingertips
- ✔ Dual gripper

RG2/RG6 collaborative grippers are true Plug & Produce solutions. The fast installation and simple programming reduce your deployment time by 30%.



Dual Gripper Setup

### APPLICATIONS



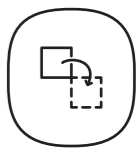
Machine Tending



Packaging & Palletizing



Assembly



Pick & Place

### TECHNICAL DETAILS

PARAMETER	RG2	RG6
Payload	2 kg	6 kg
Gripping Force (1N resolution)	3-40N	25-120N
Total Stroke (1mm resolution)	110mm	160mm
Stroke Time (0-110/40-20)	950ms/200ms	950ms/200ms
Product Weight	650g	1000g
Feedback	Force (3-40N) and width (0-110mm) detection	Force (25-120N) and width (0-160mm) detection

Compatible with **Universal Robots**

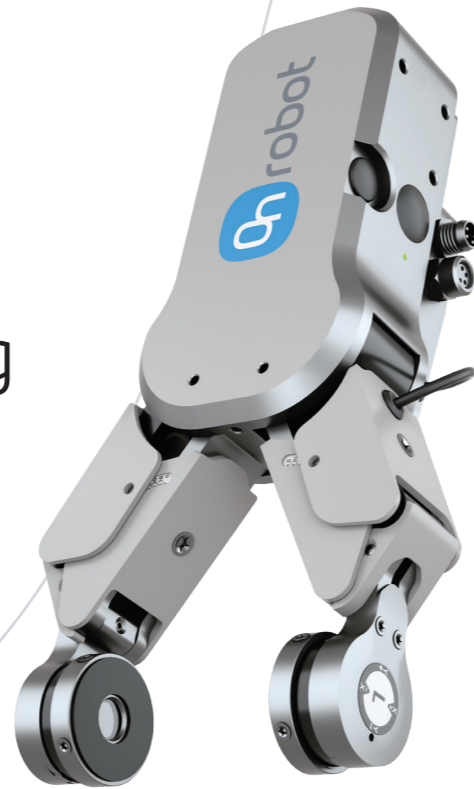


# RG2-FT GRIPPER

## See and touch objects with intelligent gripping

- ✓ Gripper with F/T sensor at the fingertips
- ✓ Detects workpiece using proximity sensor
- ✓ Detects risk of slipping before it happens
- ✓ Precise & simple depth compensation
- ✓ Integrated force-controlled insertion software
- ✓ Force/Torque sensor for enabling precise machine tending, assembly jobs and collaborative operations

You can automate high precision assembly tasks with OnRobot RG2-FT. The in-built 6 axis F/T sensors at the fingertips provide extremely accurate gripping for better production quality



### APPLICATIONS



Assembly



Pick & Place



Machine Tending

### TECHNICAL DETAILS

GENERAL PROPERTIES	MINIMUM	TYPICAL	MAXIMUM	
Total stroke	0 mm	-	100 mm	
Finger position resolution	-	0.1 mm	-	
Gripping force (adjustable)	-	-	40 N	
Gripping speed	55 mm/s	110 mm/s	184 mm/s	
FORCE SENSOR	Fxy	Fz	Txy	Tz
Nominal capacity (N.C)	20 N	20 N	0.8 Nm	0.5 Nm
Noise free resolution	0,0098 N	0,039 N	0.008 Nm	0.005 Nm
PROXIMITY SENSOR	MINIMUM	TYPICAL	MAXIMUM	
Sensing range	0 mm	-	100 mm	
Resolution	3 mm	1 mm	0.5 mm	

Compatible with **Universal Robots, KUKA**



# HEX-E, HEX-H F/T SENSOR

## Automation made simple by a sense of touch

### OPTOFORCE TECHNOLOGY

- ✓ Comprehensive software package
- ✓ No programming skills are needed
- ✓ Functions like center pointing, insertion, hand guiding or path recording
- ✓ Precise presence detection
- ✓ Keep constant force while moving
- ✓ Adds the sense of touch to your robot

The pre-programmed OnRobot force sensing applications and the intuitive user interface ensure a quicker integration and easier operation with the sense of touch.



### APPLICATIONS



Assembly



Surface Finishing:  
Deburring, Grinding, Polishing



Quality Testing & Inspection

### TECHNICAL DETAILS

PARAMETER	HEX-E - HIGH PRECISION	HEX-H - LOW DEFORMATION
Size	Ø70x37.5 mm	Ø70x37.5 mm
Rated Fx, y, z (all directions)	200 N	200 N
Rated Torque	Tz: 6,5 Nm Txy: 10 Nm	Tz: 13 Nm Txy: 20 Nm
Resolution (Noisefree)	Fxy: 0,2 N Fz: 0,8 N	Fxy: 0,5 N Fz: 1 N
Rated Deformation	Fxy: ±1,7 mm Fz: ±0,3 mm	Fxy: ±0,6 mm Fz: ±0,25 mm

Compatible with **Universal Robots, KUKA**