



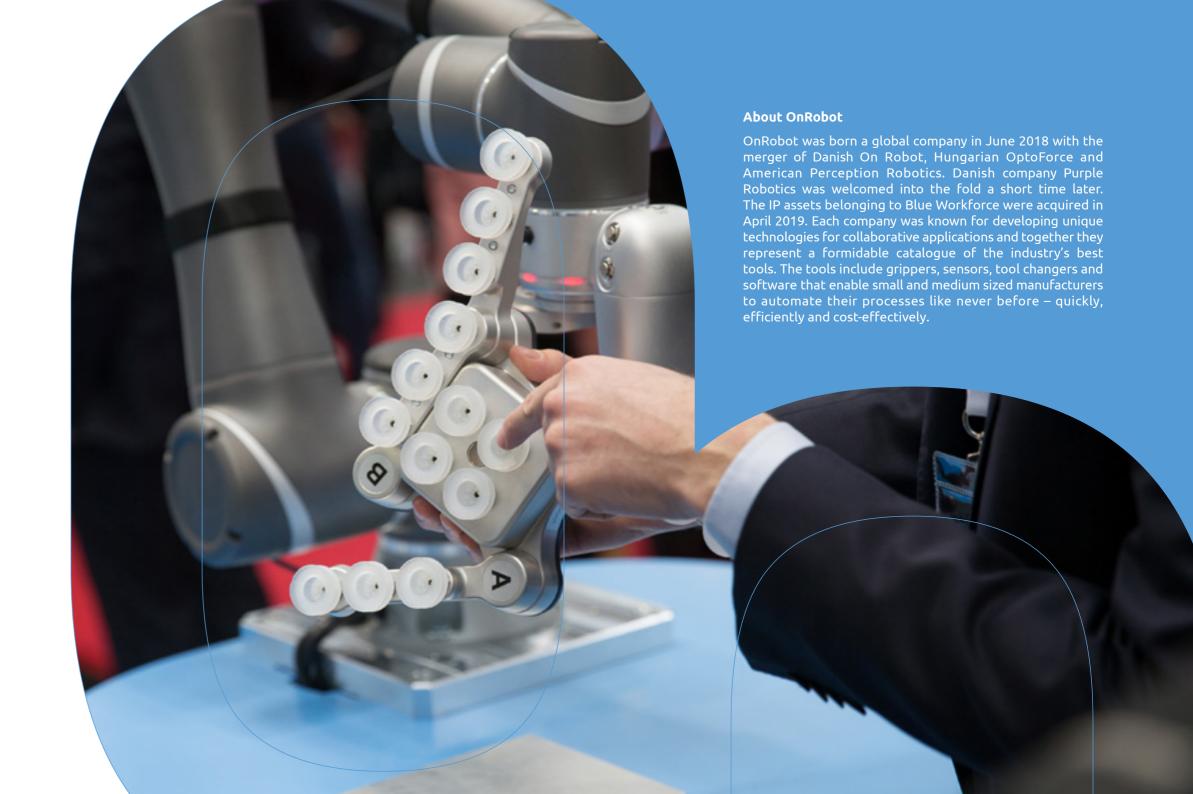


Collaborative applications are the future of automation, enabling rapid deployment, easy changeovers, and safe operation alongside human workers. Manufacturers gain true value from innovative collaborative applications that are enabled by a full range of Plug & Produce grippers, sensors, vision, and the software that drives them.

We offer the industry's broadest range of end-of-arm tooling and software solutions for collaborative applications, using a unified mechanical interface that helps manufacturers automate quickly and efficiently. Our innovative, manufacturer-focused approach saves you time and money so you can get on with the business of production.

We are excited to show you what you can accomplish with flexible, cost-effective collaborative applications.

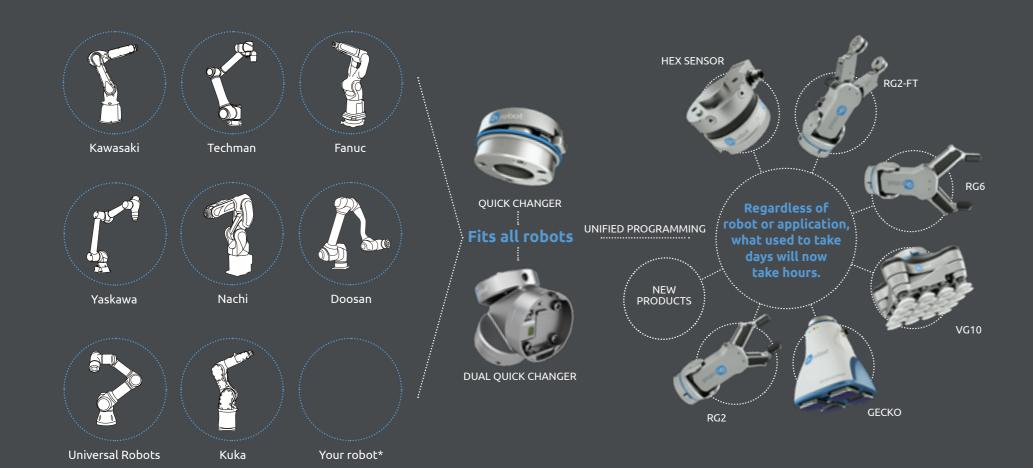
Enrico Krog Iversen, CEO OnRobot





## Any robot you choose. One **OnRobot** system.

Save integration time and simplify deployment with our complete solution.



<sup>\*</sup>If your robot arm is not represented above, contact your local partner for information on compatibility on other robot brands.

#### **ANY APPLICATION**

– What do you want to automate?

Now you can automate processes that were previously too complicated



#### One **Simple OnRobot** System

One Interface

One Training

One Person to Call

- One Stop Shop for collaborative applications. We provide all the tools you need at one place so you can automate more.
- Multiple tools, robots and applications - for multiple returns.
   Save cost and increase productivity with flexible automation tools.
- One system, zero complexity.
  Save time and grow your business fast with unified programming and easy redeployment.

### **SAVES YOU TIME AND MONEY**

| Deployment | Training | Flexibility



## RG2/RG6

Plug & Produce grippers for multiple purposes

#### **RG2 TECHNICAL SPECIFICATIONS**

General Properties	Minimum	Maximum	Unit
Payload Force Fit	-	2 4.4	[kg] [lb]
Total stroke (adjustable)	0	110 4.33	[mm] [inch]
Gripping force (adjustable)	3	40	[N]
Gripping speed	38	127	[mm/s]
Gripping time	0.06	0.21	[s]
IP Classification	IP54		

#### **RG6 TECHNICAL SPECIFICATIONS**

General Properties	Minimum	Maximum	Unit
Payload Force Fit	-	6 13,2	[kg] [lb]
Total stroke (adjustable)	0	160 6.3	[mm] [inch]
Gripping force (adjustable)	25	120	[N]
Gripping speed	51	160	[mm/s]
Gripping time	0.05	0.15	S
IP Classification	54		

#### **POWER UP PRODUCTION**

- Flexible grippers can be used for a wide range of part sizes and shapes.
- Plug & Produce design reduces deployment time from a day to an hour.
- Easy deployment with out-of-the box grippers reduces programming time by 70%

## Applications:



















## Grab & Go

# gentle but firm gripping inspired by nature

#### **GECKO TECHNICAL SPECIFICATIONS**

<b>General Properties</b>					
Workpiece Material	Polished Steel	Acrylic	Glass	Sheet Metal	
Maximum payload (x2 safety factor)	6.5kg 13.2 lb	6.5kg 13.2 lb	5.5kg 13.2 lb	5.5kg 8.8 lb	[kg] [lb]
Preload required for max adhesion	140				[N]
Detachment time	300 msec				[msec]
Holds workpiece on power loss?	yes				
Pads					
Pad Change-out interval	150 000 to 200 000 cycles for HIGH preload [cycles for LOW preload]				[cycles]
Manual Cleaning	Isopropyl alcoho	l and lint free	cloth		
Robotic cleaning system	Cleaning Station	1			
Sensors					
	Pre-load sensor		Ultrasoni	c Range ser	тѕог
Range	40 N - 140N 9 lb - 31 lb		0	260 [mm] 10 [inch]	[N][mm] [lb][inch]
Error	7%		2%		
IP	42				

#### **POWER UP PRODUCTION**

- No compressed air requirement **saves** maintenance costs and provides faster payback in as little as 5 months.
- Precise, no-mark gripper technology increases productivity in Pick & Place tasks.
- Innovative gecko technology enables gripping of flat, porous objects such as PCBs to extend automation capabilities.
- No requirement for external air supply reduces noise and dust.







Packaging & Palletizing

#### Awards for the Gecko Gripper:

- IERA Award
- Hannover Messe 2019 Robotics Award
- Silver Edison Award for Innovation in Robotics
- Global Robotics Expo Innovation Award for Robotics





Can be used with products of various sizes and materials, including:















## Pick & Collaborate helping hand with a sense of touch

The world's first gripper that can detect objects using built-in force/torque and proximity sensors.

#### **RG2-FT TECHNICAL SPECIFICATIONS**

<b>General Properties</b>	Minimum	Maximum	Unit
Payload Force Fit	-	2 4.4	[kg] [lb]
Total stroke (adjustable)	0 0	100 3.93	[mm] [inch]
IP Classification	IP54		

Force Sensor Properties	Fxy	Fz	Тху	Tz	Units
Nominal capacity (N.C.)	20	40	0.7	0.5	[N] [Nm]
Noise free resolu- tion	0.1	0.4	0.008	0.005	[N] [Nm]

#### **POWER UP PRODUCTION**

- Accurate sensing improves production quality by reducing defect rate as much as 60% in delicate Pick & Place processes.
- Easy-to-program sensing **allows robot** to act like an operator's third arm, with human-like part hand-offs.
- Ability to automate insertion tasks **that** weren't previously possible can reduce operation costs by 40%.

#### **Applications:**

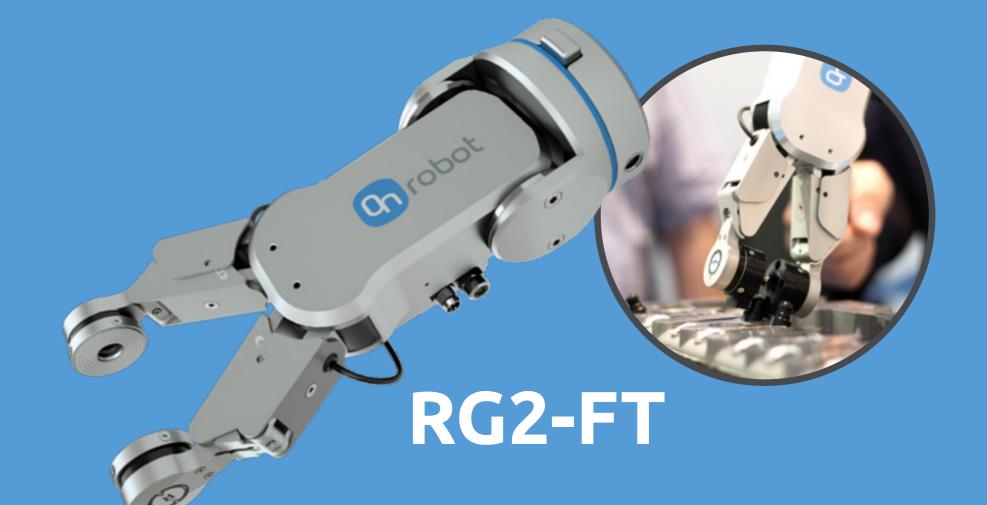












Can be used with products of various sizes and materials, including:















## Grab & Go - flexible, adjustable electrical vacuum gripper

#### **VG10 TECHNICAL SPECIFICATIONS**

General Properties	Minimum	Maximum		Unit
Vacuum	5 % -0.05 1.5	80 % -0.810 24		[Vacuum] [Bar] [inHg]
Air flow	0	12		[Nl/min]
Payload	0 0	15 33		[kg] [lb]
Recommended workpiece size	10x10 0.5x0.5	500x500 20x20		
Vacuum cups	1	16		[pcs.]
Gripping time	-	0.35	-	[s]
Releasing time	-	0.20	-	[s]
Vacuum pump	Integrated, electric BLI	DC		
Arms	4, adjustable by hand, 2	2 vacuum chann	els	
IP Classification	IP54			
Dimensions (folded)				n] h]
Dimensions (unfolded)			[mn [inc	
Weight	1.62		[kg] [lb]	l

#### **POWER UP PRODUCTION**

- Out-of-the-box deployment plug into the robot arm and configure the gripper to fit the product provides fast productivity and ROI.
- No external air supply required **reduces** maintenance costs and speeds deployment.
- Dual gripping functionality **enables shorter** cycle time.

## Applications:





Pick & Place

















Can be used with products of various



## VGC10 Compact vacuum gripper for all your needs

#### **VGC10 TECHNICAL SPECIFICATIONS**

General Properties	Minimum	Typical	Maximum	Unit
Vacuum	5 % -0.05 1.5	- - -	80 % -0.810 24	[Vacuum] [Bar] [inHg]
Air flow	0		12	[Nl/min]
Payload	0	-	15 33	[kg] [lb]
Recommended workpiece size	Unlimited, de	epends on custo	om arms	
Vacuum cups	1	-	7	[pcs.]
Gripping time	-	0.35	-	[s]
Releasing time	-	0.20	-	[s]
Vacuum pump	Integrated, e	lectric BLDC		
Arms	Replaceable,	customizable		
Dust filters	Integrated 50	)μm, field repla	ceable	
IP Classification	IP54			
Dimensions (folded)	101 x 100 x 100 [mm] 3.97 x 3.94 x 3.94 [inch]			
Weight	0.814			[kg] [lb]

#### **POWER UP PRODUCTION**

- Flexible electric vacuum gripper with unlimited customization fits all your application needs
- Small, lightweight gripper is perfect for tight spaces but with plenty of power for objects up to 15kg
- No external air supply needed for reduced maintenance costs and faster deployment

## Applications:







Machine Tending







# VGC10

Can be used with products of various

















## Touch & Go – automation made simple with a sense of touch

#### **HEX-E QC TECHNICAL SPECIFICATIONS**

General Properties	6-Axis Force/Torque Sensor		Unit		
	Fxy	Fz	Txy	Tz	
Nominal Capacity (N.C)	200	200	10	5.5	[N] [Nm]
Single axis deformation at N.C (typical)	± 1.7 ± 0.067	± 0.3 ± 0.011	± 2.5 ± 2.5	± 5 ± 5	[mm] [°] [inch] [°]
Resolution ( Noise- free)	0.2	0.8	0.01	0.002	[N] [Nm]
IP Classification	67				
Dimensions	50 x 71 x 93 1.97 x 2.79 x 3.66			[mm] [inch]	

#### **HEX-H QC TECHNICAL SPECIFICATIONS**

General Properties	6-Axis Force/Torque Sensor		Unit		
	Fxy	Fz	Txy	Tz	
Nominal Capacity (N.C)	200	200	20	13	[N] [Nm]
Single axis deformation at N.C (typical)	± 0.6 ± 0.023	± 0.25 ± 0.009	± 2 ± 2	± 3.5 ± 3.5	[mm] [°] [inch] [°]
Resolution ( Noise-free)	0.5	1	0.036	0.008	[N] [Nm]
IP Classification	67				
Dimensions	50 x 71 x 93 1.97 x 2.79 x 3.66				[mm] [inch]

#### **POWER UP PRODUCTION**

- Flexible sensor extends automation possibilities to processes that weren't previously possible.
- Out-of-the-box integration reduces deployment time for precise insertion tasks from months to days.
- High-accuracy sensor technology **provides 95%** better quality in insertion and assembly tasks.
- Sensor-based applications speed cycle time by up to 60% to produce more with the same number of employees.
- Easy programming gets even complex polishing tasks up and running in less than a day.

## **Applications:**





















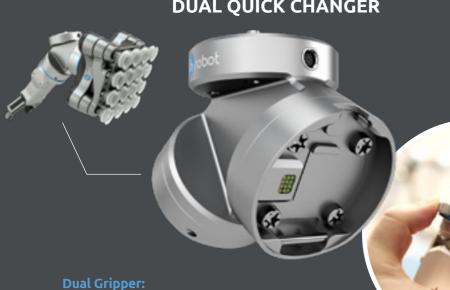
# Quick Changer & Dual Quick Changer Bracket

With the Dual Quick Changer, you can now use two tools in one cycle, achieving higher utilization of your robots.

**DUAL QUICK CHANGER** 

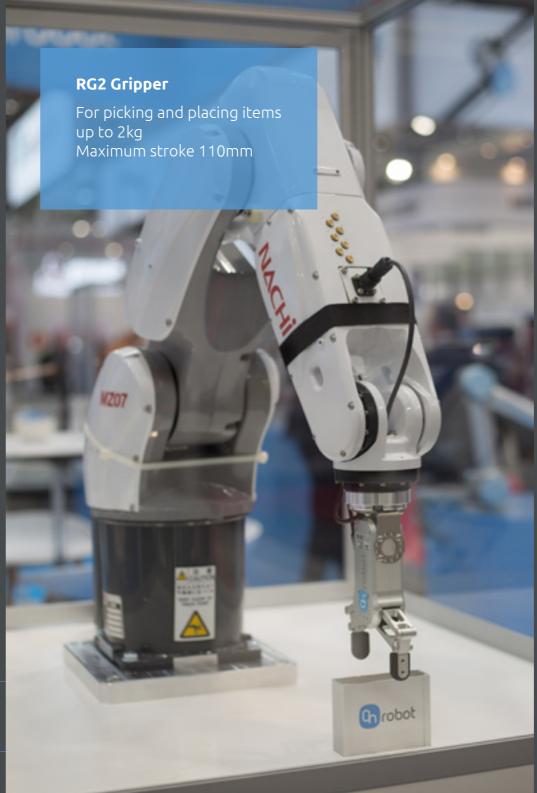
**QUICK CHANGER** 

Quickly switch between tools to meet changing production needs.



- Dual gripper speeds cycle time and can improve productivity by 50% or more.
- Increased productivity offers faster payback, with ROI in as little as 3 months.

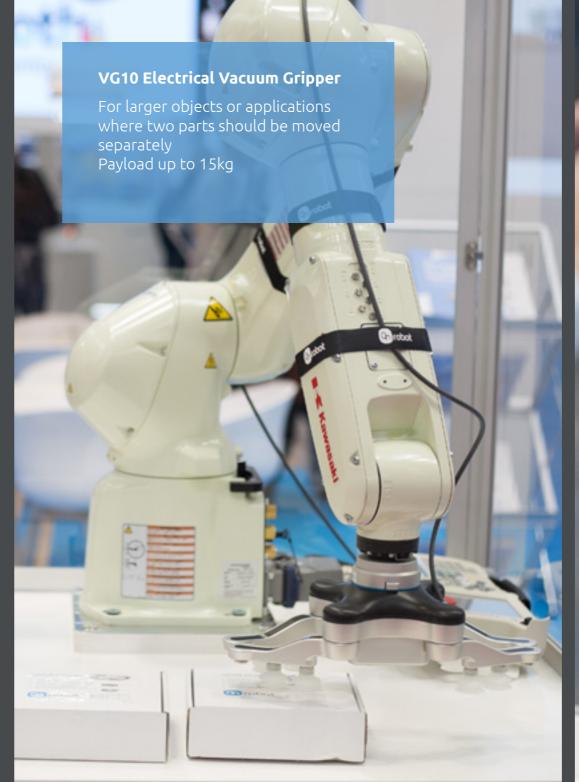
# acti **.**















## Find an OnRobot partner near you

We sell our products through a global network of valued partners - who have the tools, software, inspiration and training to develop any collaborative application their customers can imagine. Find a partner near you at

https://onrobot.com/en/partners.

**Business Card**