



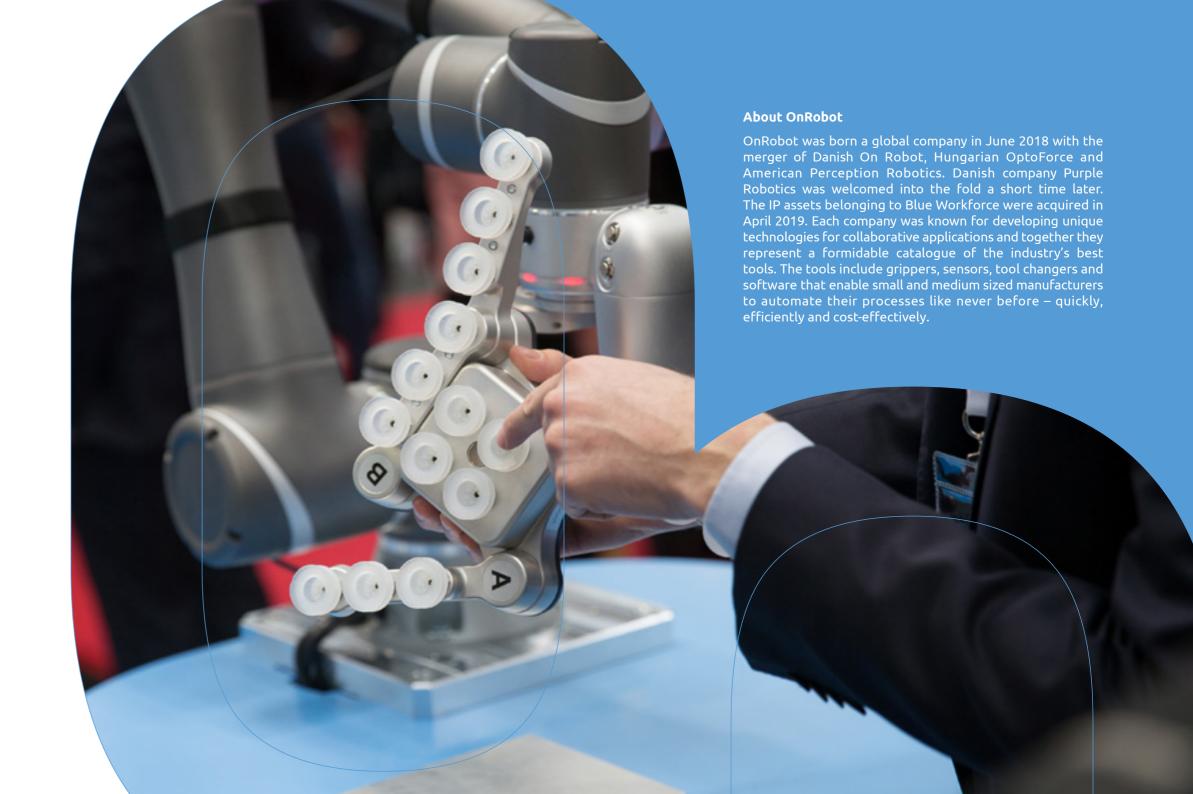


Collaborative applications are the future of automation, enabling rapid deployment, easy changeovers, and safe operation alongside human workers. Manufacturers gain true value from innovative collaborative applications that are enabled by a full range of Plug & Produce grippers, sensors, vision, and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

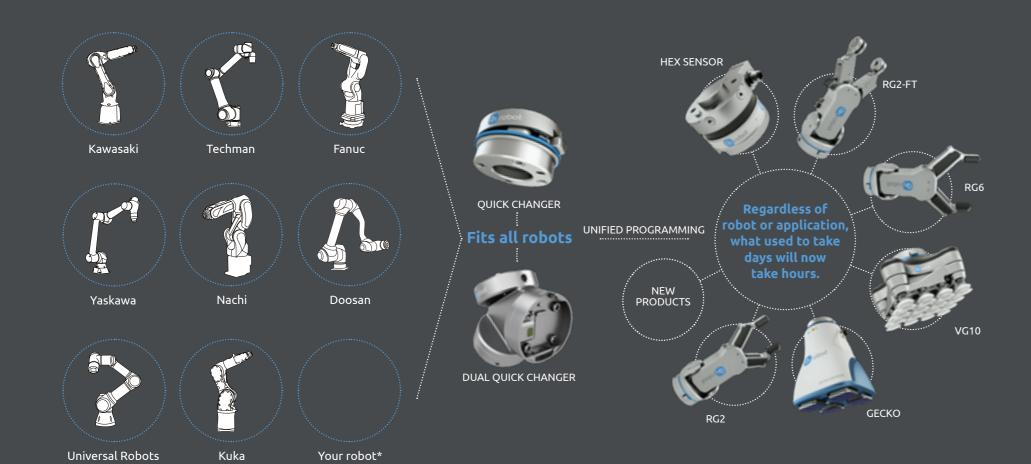
Enrico Krog Iversen, CEO OnRobot





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

Save integration time and simplify deployment with our complete solution.



^{*}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 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

General Properties						
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	140				
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] 200 000 to 250 000 cycles for LOW preload					
Manual Cleaning	Isopropyl alcoho	l and lint free	cloth			
Robotic cleaning system	Cleaning Station	1				
Sensors						
	Pre-load sensor		Ultrasoni	c Range ser	nsor	
Range	40 N - 140N 9 lb - 31 lb		0	260 [mm] 10 [inch]	[N][mm] [lb][inch]	
Еггог	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



















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

General Properties	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	ximum 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		[mm] [inch]
Vacuum cups	1	16		[pcs.]
Gripping time	-	0.35	-	[s]
Releasing time	-	0.20	-	[s]
Vacuum pump	Integrated, electric BL	DC		
Arms	4, adjustable by hand,	2 vacuum chanr	iels	
IP Classification	IP54			
Dimensions (folded)	105 x 146 x 146 4.13 x 5.75 x 5.75 [ir			
Dimensions (unfolded)	l		[mr	
Weight	1.62 3.57		[kg] [lb]	

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 sizes and materials, including:















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	pends on custo	m 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 3.97 x 3.94 x 3.94			[mm] [inch]
Weight	0.814 1.79			[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:











sizes and materials, including:











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 gripper speeds cycle time and can improve

• Increased productivity offers faster payback, with

productivity by 50% or more.

ROI in as little as 3 months.

QUICK CHANGER

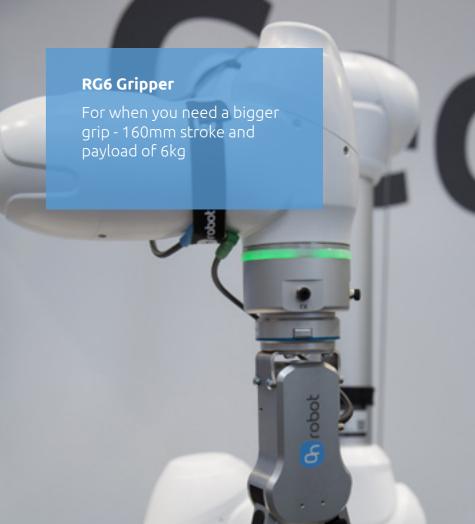
DUAL QUICK CHANGER

Dual Gripper:

Quickly switch between tools to meet changing production needs.

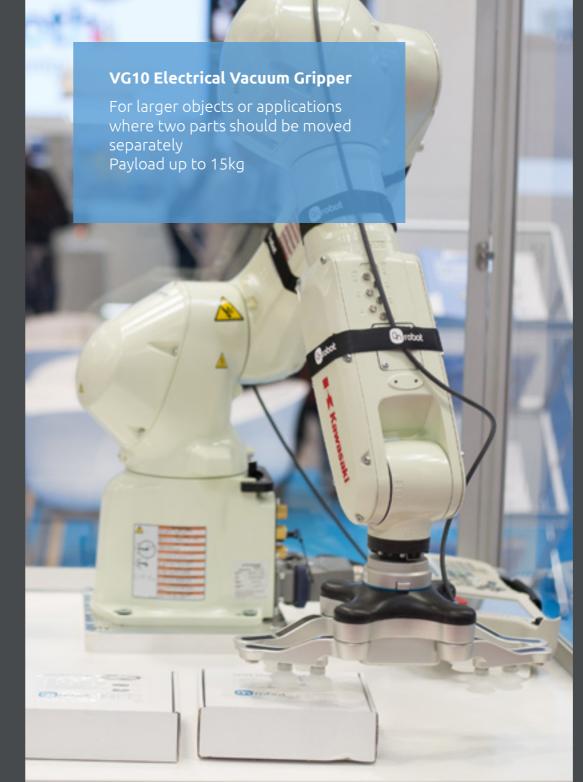
acti **.**















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