



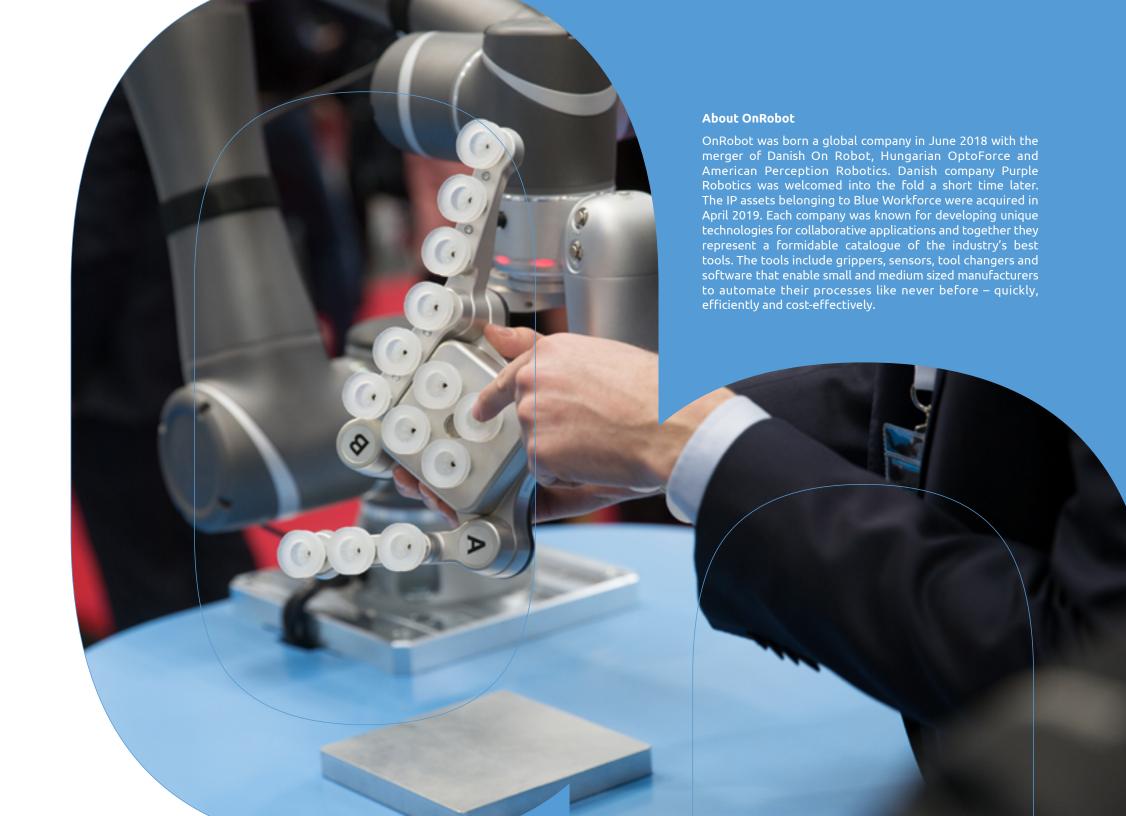


Collaborative applications are the future of automation, enabling rapid deployment, easy changeovers, and safe operation alongside human workers. Manufacturers gain true value from innovative collaborative applications that are enabled by a full range of Plug & Produce grippers, sensors, vision, and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

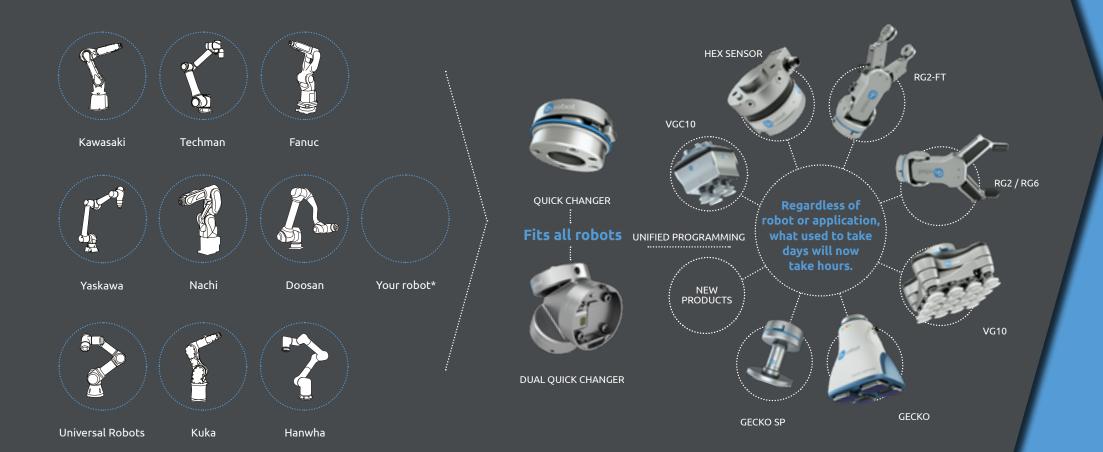
Enrico Krog Iversen, CEO OnRobot





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

Save integration time and simplify deployment with our complete solution.



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:























3FG15 Flexible, large-stroke 3-finger gripper

TECHNICAL SPECIFICATIONS

General Pro	General Properties		Minimum Typical		Unit	
Payload Fo	rce Fit	10/22			[kg] / [lb]	
Payload Fo	rm Fit	-	-	15 / 33	[kg] / [lb]	
Grip Diameter*	External	4 / 0.16	-	152 / 5.98	[mm] / [inch]	
Grip Diameter"	Internal	35 / 1.38	-	181 / 7.12	[mm] / [inch]	
Finger position	resolution	-	0.1 / 0.004	-	[mm] / [inch]	
Repetition a	ссигасу	-	0.1 / 0.004	0.2 / 0.007	[mm] / [inch]	
Gripping f	огсе	10	10 - 240			
Gripping force (a	adjustable)	3	3 - 100			
Gripping s (diameter cl		-	125			
Gripping l (including brake		-	- 500 -			
Hold work if power l		Yes				
IP Classific	ation	IP67				
Dimensions [L, W, Ø]	156 x 158 x 180 / 6.14 x 6.22 x 7.08 [mm] / [inch]				
Weigh	t		1.15 / 2.5		[kg] / [lb]	

POWER UP PRODUCTION

- Flexible production large-stroke **optimizes** CNC lathe-tending for multiple part sizes with a single 3-finger gripper
- Accurate centric positioning drives **higher** quality, consistency, and output with minimal programming
- Strong, stable grip and 3 contact points makes gripper **fast and easy to redeploy** for multiple processes
- Accomplish more with customizable fingertips to flexibly grip a wide range of part sizes and shapes

Applications:







Machine Tending Packaging & Palletizing Pick & Place



Plastic

Cardboard





Soft Gripper

Explore new automation possibilities with certified food-grade soft gripper

TECHNICAL SPECIFICATIONS

General Properties	Minimum	Typical	Maximum	Unit	
Material	Т	Two-component silicone ru			
Food approval	FDA 2	FDA 21 CFR 177.2600 & EC/EU - 1935/2004			
Operation cycles		2.000.000		[cycles]	
Operation temperature	-20 / -4		80 / 176	[C] / [F]	
SG-tool attachment mechanism		Quick-lock	and Smart-loc	k	
Washable		Dishwa	asher safe		
SG-a-H / SG-a-S					
Max payload	-	-	2.2 / 1.5 4.85 / 3.3	[kg] [lb]	
Work range, Grip dimensions (A)	11 / 0.43	-	75 / 2.95	[mm] / [inch]	
Work range, Grip depth (B)	-	38 / 1.496	-	[mm] / [inch]	
Soft part (SG-a-S) (C)	-	16 / 0.63	-	[mm] / [inch]	
Dimensions (HxØmax)	7	76x112 / 3 x 4	.4	[mm] / [inch]	
Weight (smart lock included)		0.168 / 0.37		[kg] / [lb]	
SG-b-H					
Max payload	-	-	1.1 / 2.42	[kg] / [lb]	
Work range, Grip dimensions (A)	24 / 0.94	-	118 / 4.65	[mm] / [inch]	
Work range, Grip depth (B)	-	40 / 1.57	-	[mm] / [inch]	
Dimensions (HxØmax)	77x109 / 3.03 x 4.29			[mm] / [inch]	
Weight (smart lock included)	0.172 / 0.379			[kg] / [lb]	

POWER UP PRODUCTION

- Explore new possibilities for food and beverage automation with certified food-grade soft gripper
- Easily handle a wide array of irregular shapes and delicate objects with flexible silicon-molded gripper
- Safely handle fragile and delicate objects for higher production quality and reduced waste
- No external air supply means no dust, no noise, no complexity, and no additional costs

Applications:





Packaging & Palletizing

Pick & Pla

Soft Gripper



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



Organic material















OnRobot Eyes

Adding vision to robotic applications has never been easier

TECHNICAL SPECIFICATIONS

Camera Characteristics			
	USB-C 3.x		
Interface			
Output Resolution	1280 x 1080		
Working distance	400-1000 mm		
Operating Temperature	0 − 35 °C		
IP rating	IP 65		
Eyes Features			
Type of vision system	2.5 D		
Minimum part size	10x10 mm or 15 mm diamet	er	
Applications Supported	Detection, Sorting		
Mounting options supported	Robot and External		
	12 configurations (4 x 3)		
Reconfigurability when Robot mounted	Around robot's flange	Tilt orientations	
	0 - 90 - 180 - 270 (degrees)	0 - 45 - 90 (degrees)	
Detection processing time	Тур: 0.5 s		
Detection Repeatability	< 2 mm		
Detection Accuracy	External Mount	Robot Mount	
	Typ: 2 mm	Typ: 2 mm	
Application and set-up recommenda	tions		
Light conditions	No drastic, instant change		
Reflections and focused light spots	Keep minimal		
Characteristics of objects	Different from background		
Camera with respect to workspace	Looking straight to it		

POWER UP PRODUCTION

- Quickly and easily add vision to robotic applications with one-picture calibration, fast programming and seamless gripper integration
- Affordable, efficient 2.5D vision offers depth perception for varying heights or stacked objects
- Flexible, adaptable vision system with on-robot or external mounting is ideal
- almost any collaborative application
- Easily sort, pick and place unstructured applications with high reliability using any robot arm

Applications:





















Robot wrist mount



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 200 000 to 250 000 cycles for LOW preload [cycl				
Manual Cleaning	Isopropyl alcoho	l and lint free	cloth			
Robotic cleaning system	Cleaning Station	ı				
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		7			

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.





Applications:

Packaging & Palletizing

Pick & Pla

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:







Glossy Packaging







SP1/SP3/SP5 Gecko Single Pad Gripper

TECHNICAL SPECIFICATIONS

General Properties			Unit
	SP1	1/2.2	[kg] / [lb]
Maximum payload	Maximum payload SP3 3 / 6.6		
	SP5	5 / 11	[kg] / [lb]
	Minimum	SP1: 2.8 SP3: 8.2 SP5: 11.6	[N]
Preload required	Medium	SP1: 8.2 SP3: 23.4 SP5: 33	[N]
	Maximum	SP1: 13.3 SP3: 38.6 SP5: 54.4	[N]
Detachment time		100-1000 (dependent on robot speed)	[msec]
Holds workpie power los		Yes. How long? Potentially days if well centered and undisturbed	
IP Classifica	tion	IP42	
Dimensions (HxW)	69 x 71 / 2.7 x 2.8	[mm] / [inch]
	SP1	0.267 / 0.587	[kg] / [lb]
Weight	SP3	0.297 / 0.653	[kg] / [lb]
	SP5	0.318 / 0.7	[kg] / [lb]

Pads general properties		Unit
Material	Proprietary silicone blend	
Wear properties	Depends on surface roughness	
Change-out interval	~200.000	[cycles]
Cleaning systems	1) OnRobot cleaning station 2) Silicone roller 3) Isopropyl Alcohol and lint-free cloth	
Cleaning interval	variable	
Recovery	100%	

POWER UP PRODUCTION

- Compact, lightweight Gecko Single Pad Gripper requires no cables, electricity, air, or programming for cost-effective, plug-and-play performance
- Innovative adhesive gripper for flat, smooth, or perforated objects automates tasks that were previously not possible
- No-mark gripping even for shiny surfaces means no cleaning step is required, saving time and improving productivity
- No requirement for external air supply reduces noise and dust, lowers maintenance costs, and speeds deployment

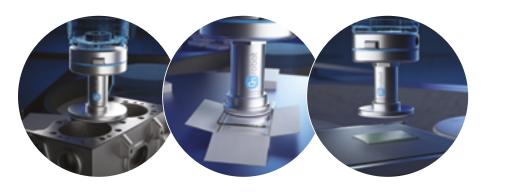
Applications:





Packaging & Palletizing Pick & Place

Gecko Single Pad Gripper





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



Plastic







Glossy Packaging

G



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:





























RG2-FT

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 % 80 % -0.05 -0.810 1.5 24			[Vacuum] [Bar] [inHg]
Air flow	0	12		[Nl/min]
Payload	0			[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 BLI	oc		
Arms	4, adjustable by hand, 2	2 vacuum chann	els	
IP Classification	IP54			
Dimensions (folded)	105 x 146 x 146 4.13 x 5.75 x 5.75		[mr	
Dimensions (unfolded)	105 x 390 x 390 4.13 x 15.35 x 15.35		[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:





Packaging & Palletizing

Pick & Place



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











Glass





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, depends on custom 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 replac	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			

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 3.6	[mm] [inch]					

HEX-H QC TECHNICAL SPECIFICATIONS

General Properties	6-Axis Force/Torque Sensor		Unit				
	Fxy	Fz	Тху	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 3.6	[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:



Surface Finishing



Pick & Place







Can be used with products of various 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.



One Stop Shop for Collaborative Applications

All the tools you need at one place to automate more





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