

One Stop Shop for Collaborative Applications

All the tools you need at one
place to automate more



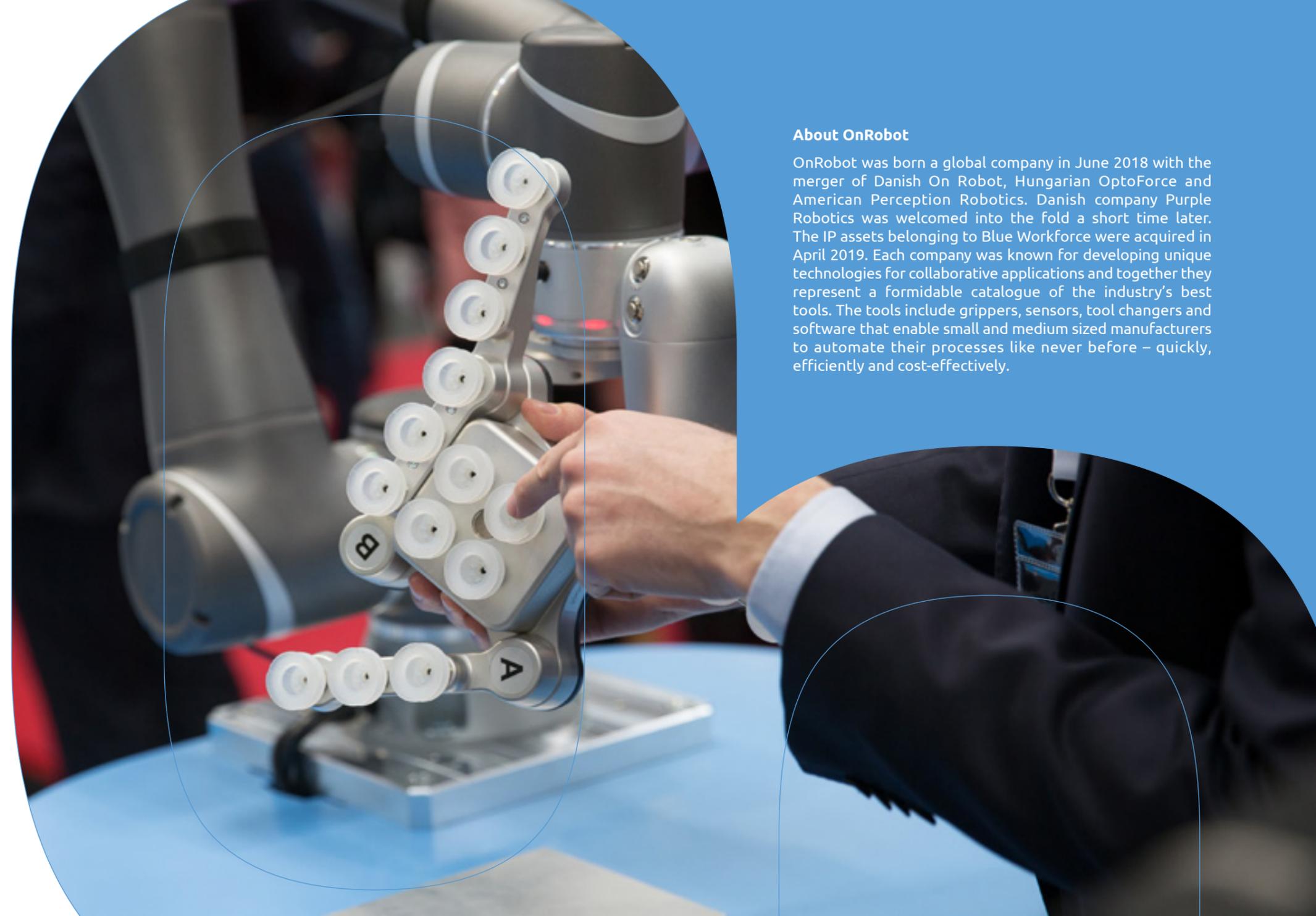


Collaborative applications are the future of automation, enabling rapid deployment, easy changeovers, and safe operation alongside human workers. As the robots themselves become commodities, manufacturers gain true value from innovative collaborative applications that are enabled by a full range of Plug & 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

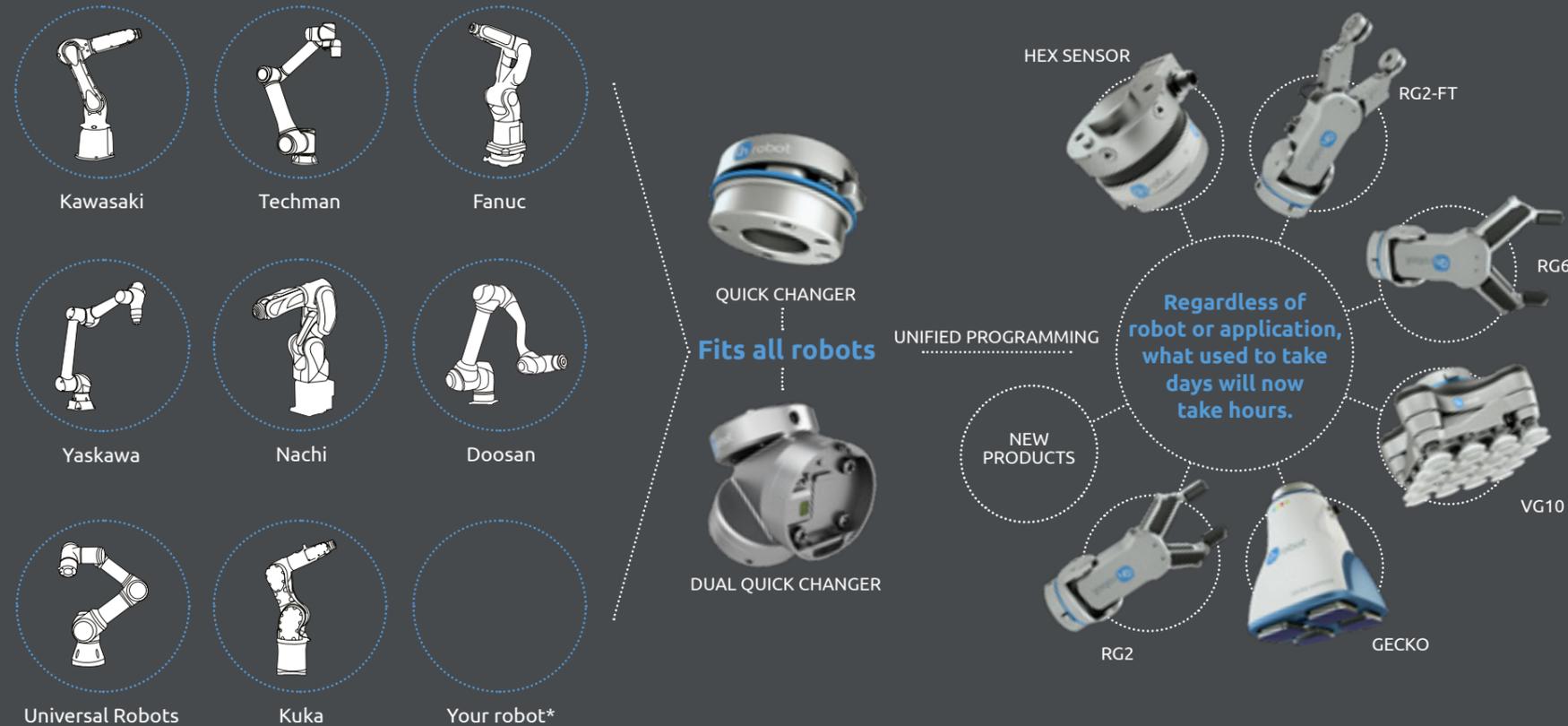


About OnRobot

OnRobot was born a global company in June 2018 with the merger of Danish On Robot, Hungarian OptoForce and American Perception Robotics. Danish company Purple Robotics was welcomed into the fold a short time later. The IP assets belonging to Blue Workforce were acquired in April 2019. Each company was known for developing unique technologies for collaborative applications and together they represent a formidable catalogue of the industry's best tools. The tools include grippers, sensors, tool changers and software that enable small and medium sized manufacturers to automate their processes like never before – quickly, efficiently and cost-effectively.

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	[kg]
	-	4.4	[lb]
Total stroke (adjustable)	0	110	[mm]
	0	4.33	[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	[kg]
	-	13,2	[lb]
Total stroke (adjustable)	0	160	[mm]
	-	6.3	[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:



Machine Tending



Packaging & Palletizing



Assembly



Pick & Place



Plastic



Metal



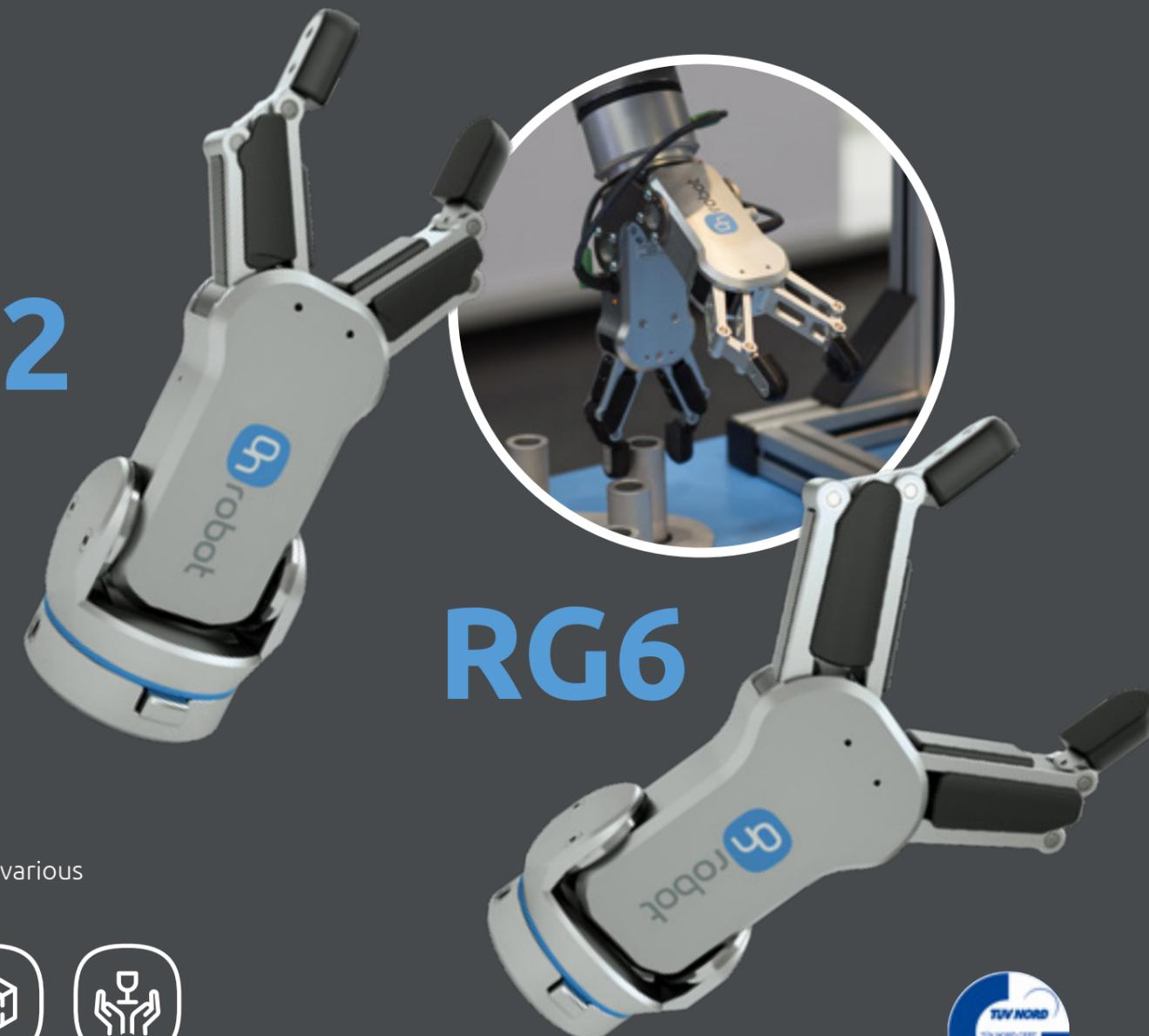
Cardboard



Glass

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

RG2



RG6



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				[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 200 000 to 250 000 cycles for LOW preload				[cycles]
Manual Cleaning	Isopropyl alcohol and lint free cloth				
Robotic cleaning system	Cleaning Station				
Sensors					
	Pre-load sensor		Ultrasonic Range sensor		
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.**

Applications:



Packaging & Palletizing



Pick & Place

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



Gecko

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



Plastic



Metal



Glossy Packaging



Wood



Glass

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	Txy	Tz	Units
Nominal capacity (N.C.)	20	40	0.7	0.5	[N] [Nm]
Noise free resolution	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:



Machine Tending



Assembly



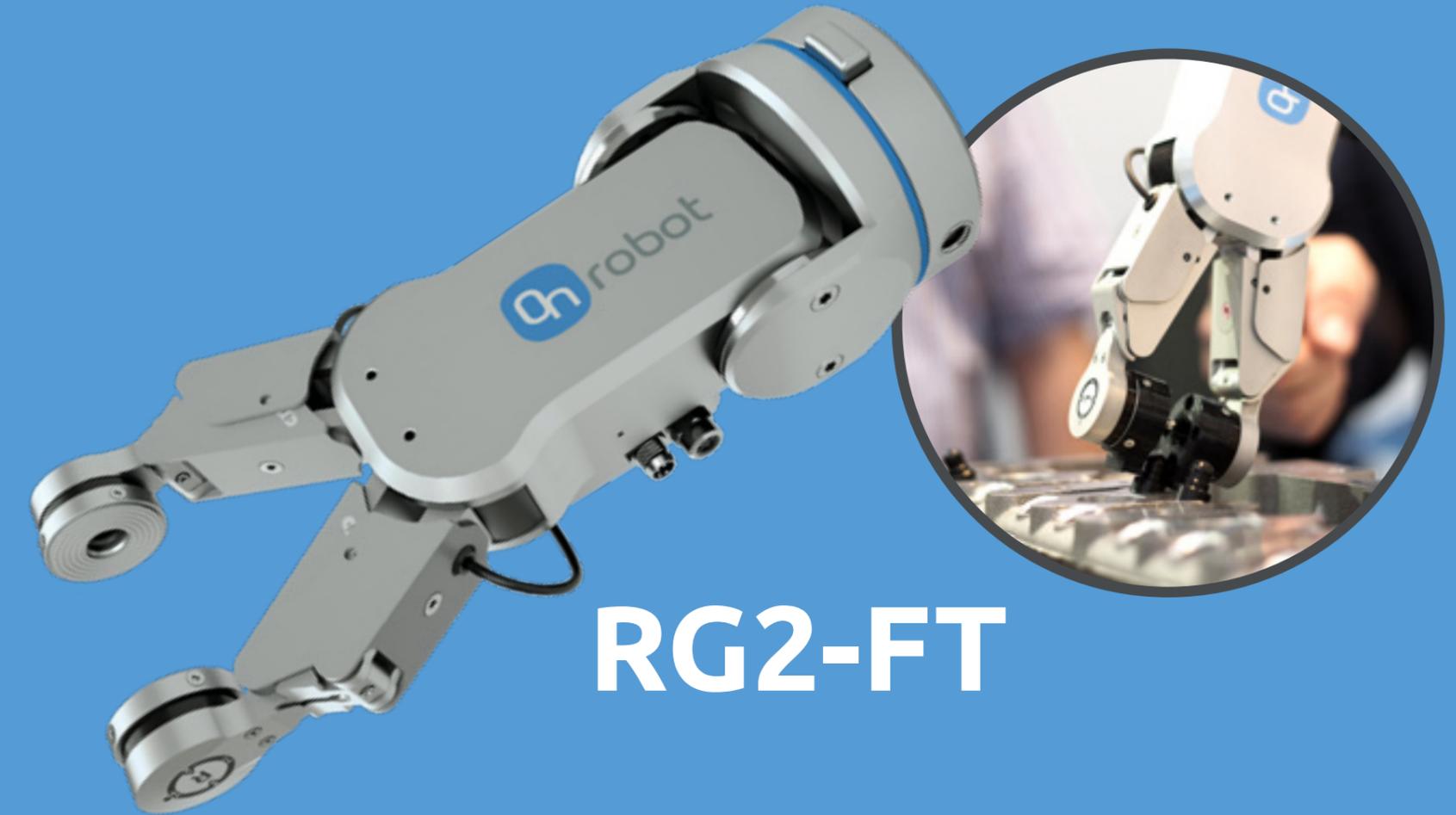
Pick & Place



Packaging & Palletizing



Quality Testing and Inspection



RG2-FT

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



Plastic



Metal



Cardboard



Wood



Glass

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	[mm] [inch]
Vacuum cups	1	16	[pcs.]
Gripping time	-	0.35	- [s]
Releasing time	-	0.20	- [s]
Vacuum pump	Integrated, electric BLDC		
Arms	4, adjustable by hand, 2 vacuum channels		
IP Classification	IP54		
Dimensions (folded)	105 x 146 x 146 4.13 x 5.75 x 5.75		[mm] [inch]
Dimensions (unfolded)	105 x 390 x 390 4.13 x 15.35 x 15.35		[mm] [inch]
Weight	1.70 3.75		[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



VG10

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



Plastic



Metal



Glossy Packaging



Glass



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:



Surface Finishing



Pick & Place



Assembly



Quality Testing and Inspection

HEX Force/Torque SENSOR

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



Plastic



Metal



Wood



Glass



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:

- 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.

Our tools in action

RG2 Gripper

For picking and placing items up to 2kg
Maximum stroke 110mm



RG6 Gripper

For when you need a bigger grip - 160mm stroke and payload of 6kg



A close-up photograph of the RG2-FT Gripper robot arm. The gripper is a complex mechanical assembly with a grey and black finish. The 'Q robot' logo is visible on a grey panel. The gripper is positioned over a dark, textured metal component.

RG2-FT Gripper

For high-precision assembly applications where fingertip sensitivity is required

A photograph of the Gecko Gripper robot arm. It is a white and blue dual-arm robot with 'YASKAWA' and 'Q robot' branding. The gripper is a small, blue, dome-shaped device. The robot is mounted on a white base and is positioned over a green printed circuit board (PCB) on a white surface.

Gecko Gripper

For perforated or more fragile objects
Leaves no mark on the surface
Payload up to 6.5 kg

A photograph of the VG10 Electrical Vacuum Gripper robot arm. It is a white and blue dual-arm robot with 'Q robot' and 'KAWASAKI' branding. The gripper is a large, white, cylindrical vacuum-based device. The robot is mounted on a white base and is positioned over a white surface with some components.

VG10 Electrical Vacuum Gripper

For larger objects or applications where two parts should be moved separately
Payload up to 10kg

A close-up photograph of the HEX Sensor robot arm. It is a large, orange and black dual-arm robot with 'Q robot' branding. The gripper is a complex mechanical assembly with a green sensor component. The robot is mounted on a white base and is positioned over a white surface with some components.

HEX Sensor

For high precision insertion tasks. Handles variation like a pro
Surface finishing, gluing



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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.

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



Business Card