

All the tools you need at one place to automate more





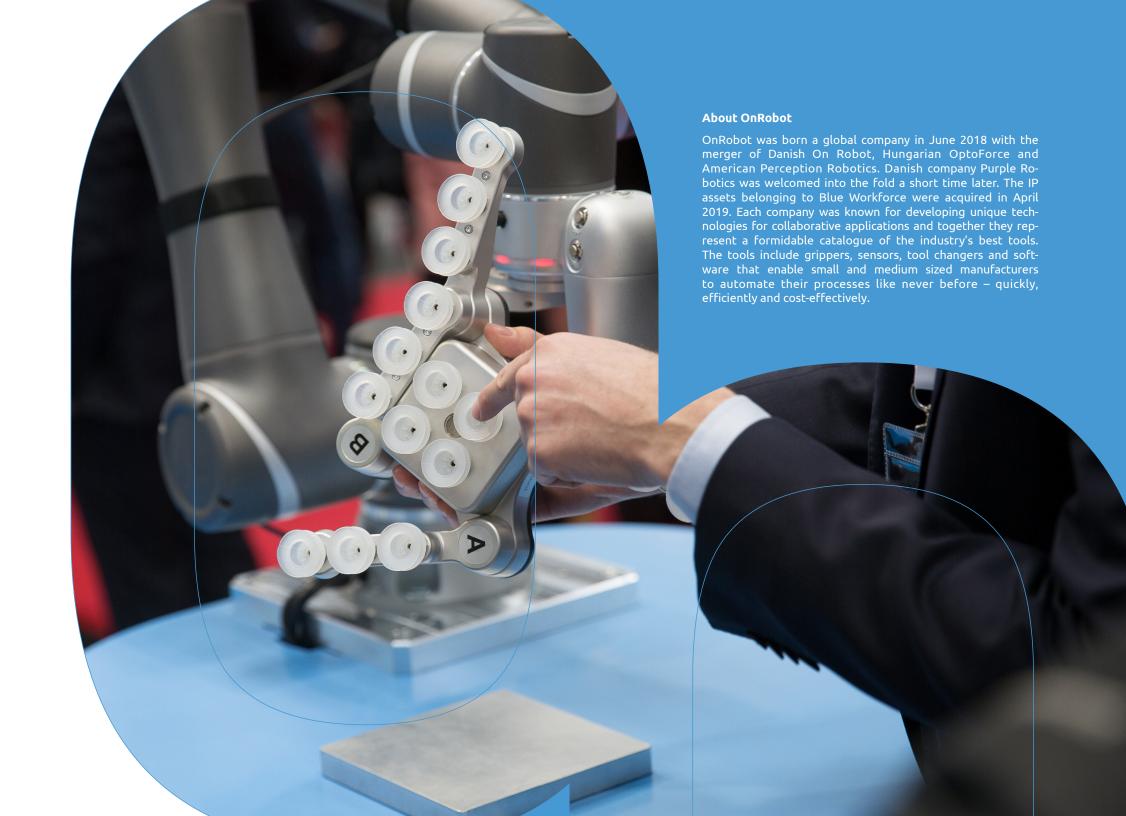


Collaborative applications are the future of automation, enabling rapid deployment, easy changeovers, and safe operation alongside human workers. Manufacturers gain true value from innovative collaborative applications that are enabled by a full range of Plug & Produce grippers, sensors, vision, and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



One System, Zero Complexity, Unlimited Opportunities

Save integration time and simplify deployment with our complete solution.













Soft Gripper



GECKO SP



VG10













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

Robots



D:PLOY The next big leap in automation

The field of automation has grown tremendously over the last decades. Although many manufacturers have embraced automation, high barriers to implementation remain, especially among small and medium-sized companies. Deploying robotic applications on the manufacturing floor is still far too complex, time-consuming, and inflexible. With D:PLOY, this is a thing of the past. By reducing the complexity of robotic application deployment, manufacturers can finally reap the benefits of automation. The deployment will be faster, easier, and more affordable.

Finally reap the benefits of robotic automation and stay ahead of competition

- D:PLOY breaks down automation barriers so you can automate faster, easier, and without risk
- With dramatic time savings of up to 90% on deployment and re-deployment, automation comes at a lower cost and more attractive ROI
- Reap the benefits of automation and solve your labor shortage problems, improve productivity, relieve operators from unwanted tasks, and stay ahead of the competition

ONLINE ONSITE UP TO 90% TIME SAVINGS

The D:PLOY platform combines hardware and software to deliver solutions that address various robotic applications. Today, D:PLOY supports the following applications, with more to follow.



CNC

D:PLOY D:PLOY

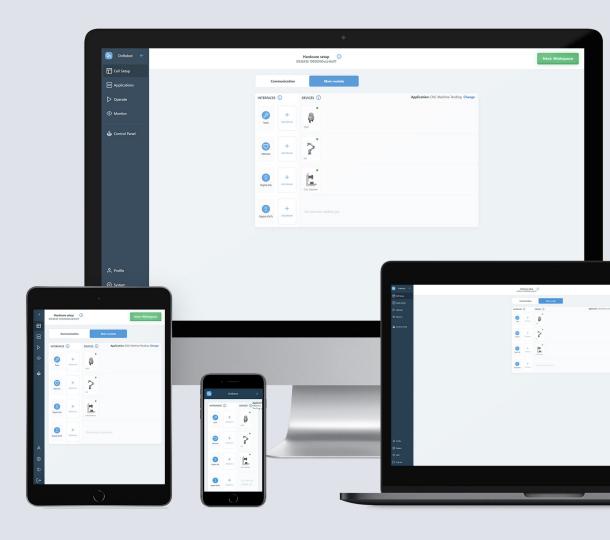
Palletizing



D:PLOY Packaging



D:PLOY Transferring





Automate faster, easier, and without risk

D:PLOY offers an unprecedented reduction in robotic cell deployment time and complexity, resulting in dramatic time savings of up to 90% over conventional approaches.

D:PLOYhelpsbringdownoverallautomationcostsbyreducing deployment and re-deployment time. Manufacturers will see faster, lower-cost implementation for better ROI, while gaining control over ongoing automation changes.



Take control of your automation journey

When production requirements change, D:PLOY gives you the flexibility to quickly re-deploy the application, for example when introducing a new part.

- ⊗ Save time and money on re-deployments
- Access monitoring data on and off-site for improving productivity and reducing downtime





How D:PLOY works

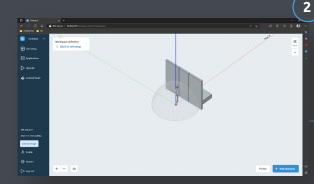
The powerful D:PLOY platform allows you to build complete applications directly on the manufacturing floor in a few simple steps, with zero programming and zero simulations.

To get started, install the OR:BASE and cell components and configure your robot. Simply scan the QR codes provided to connect your device (e.g., tablet) to the OR:BASE, and then to login to D:PLOY.



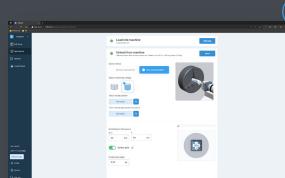
Cell setup

Automatically discovers most of the installed hardware and configures interfaces, providing immediate control over them.



Workspace

Automatically generates a collisionfree path depending on the obstacles defined.



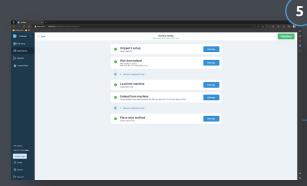
Application setup

Automatically generates all the program logic, signals exchange, events handling, and path planning of the robot for the entire application based on a few inputs.



Operate and monitor

Operate with ease and gain insights into performance indicators – all in real-time and with limited configuration needed.



Re-deploy

D:PLOY delivers the flexibility and redeployment speed to respond quickly to changes in production requirements.



2FGP20

Versatile electric gripper for palletizing heavy cardboard boxes, open boxes and other containers that cannot be gripped with vacuum

TECHNICAL SPECIFICATIONS

Finger Grip Properties	Minimum Typical Maxii		Maximum	Unit
Devlaced	-	-	20	[kg]
Payload	-	-	44.1	[lb]
Tabel shorts	-	260	-	[mm]
Total stroke	-	10.24	-	[inch]
Ci- width	170	-	430	[mm]
Grip width range	6.69	-	16.93	[inch]
6	-	+/- 0.5	-	[mm]
Gripping repeatability	-	+/- 0.0197	-	[inch]
Gripping force	80	-	400	[N]
Gripping speed	16	-	180	[mm/s]
Gripping time (incl. brake activation)	-	600	-	[ms]
Hold workpiece if power loss?		Ye	5	
Motor	ı	ntegrated, el	ectric BLDC	
IP Classification	54			
Dimensions	4	[mm]		
Differsions	1	[inch]		
Wainkt	3.5			[kg]
Weight		[lb]		

POWER UP PRODUCTION

- Highly versatile palletizing gripper with wide stroke and customizable arms to handle heavy or open boxes, shelf-ready products and other containers that can't be gripped with vacuum
- Integrated vacuum gripper handles slip sheets without changing the gripper or requiring other handling method
- Off-the-shelf gripper saves significant engineering effort and shortens deployment time
- Electric gripper offers fast out-of-the-box deployment without the complexity and costs of external air supply

Vacuum Grip Properties	Minimum	Typical	Maximum	Unit
	5	-	60	[%Vacuum]
Vacuum	- 0.05	-	- 0.607	[Bar]
	1.5	-	17.95	[inHg]
Air flow	0	-	12	[L/min]
Payload (with delivered attachments)	-	-	2.5	[kg]
Paytoad (with delivered attachments)	-	-	5.51	[lb]
Vacuum cups	1	-	4	[pcs]
Gripping time (measured with vacuum target 40%)	-	0.25	-	[s]
Release time	-	0.4	-	[s]
Vacuum pump	Integrated, electric BLDC			
Dust filters	Inte	grated 50	µm, field repla	aceable

2FGP20

Flexible gripper for palletizing applications



Applications:



Material Handling

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





(

Cardboard



VGP20

Industry's most powerful electric vacuum gripper

TECHNICAL SPECIFICATIONS

General Properties	Minimum	Typical	Maximum	Unit
	5%	-	60%	[Vacuum]
Vacuum	-0.05	-	-0.607	[Bar]
	1.5	-	17.95	[inHg]
Air flow in total	0	-	48	[L/min]
Air flow on each channel	0	-	12	[L/min]
Dayload (with default attachments)	-	10 ⁽¹⁾	20 ⁽²⁾	[kg]
Payload (with default attachments)	-	22.04	44.09	[lb]
Vacuum cups	1	16	16	[pcs.]
Gripping time (measured with vacuum target 40%)	-	0.25 ⁽³⁾	-	[s]
Releasing time	-	0.4 ⁽³⁾	-	[s]
Noise level ⁽⁴⁾	-	67	71	[dB(A)]
Vacuum pump		Integrated, e	electric BLDC	
Dust filters	Integ	grated 50µm,	field replace	able
IP Classification		IP	54	
Dimensions	ĩ	[mm]		
Dimensions	10	[inch]		
Waiaht		[kg]		
Weight		[lb]		

POWER UP PRODUCTION

- Industry's most powerful electric vacuum gripper saves up to 90% over pneumatic grippers
- Ideal for palletizing cardboard boxes and other irregular shapes and porous surfaces
- Highly versatile gripper with unlimited customization fits any application
- Built-in intelligence and multichannel functionality ensure failsafe, flexible operation
- Complete out-of-the-box vacuum gripper offers fast, easy deployment with any leading robot

Applications:



aterial Handl



Machine Tendin





LIFT100

Long-stroke, high-payload elevator enables a wide range of palletizing tasks

TECHNICAL SPECIFICATIONS

General Properties	Minimum Typical Maximum		Maximum	Unit		
Davidson	0	-	100	[kg]		
Payload	0	-	220	[lb]		
Height above floor	730	-	1630	[mm]		
neight above floor	28.74	-	64.17	[inch]		
Stroke of lift	0	-	900	[mm]		
Stroke of tilt	0	-	35.43	[inch]		
Lift speed	0	-	100	[mm]		
Lift speed	0 - 3.39		3.39	[inch]		
Weight	86					
weight	189.6					
Dimensions [L x W x D]	730 x 325 x 492	-	1630 x 325 x 492	[mm]		
Difficisions [L x w x D]	28.74 x 12.8 x 19.37	-	64.17 x 12.8 x 19.37	[inch]		
Interfaces / Communication	Modbus					
Sharaga bamaarahura	0	-	60	[°C]		
Storage temperature	32	-	140	[°F]		
IP Classification		IP54				

POWER UP PRODUCTION

- Long-stroke elevator creates 7th axis for leading robot arms to enable a wide range of future-proofed palletizing tasks
- High-payload elevator with minimal deflection ensures precise positioning of boxes even at high speeds
- Robust design for reliable, long product life under all typical manufacturing conditions
- Integrated safety features with TÜV-certified stop functionality to facilitate collaborative deployment
- Out-of-the-box integration with OnRobot palletizing solution shortens deployment time

Applications:





erial Handling

Machine Tendi

LIFT100

Extend and future-proof palletizing and manufacturing applications







Pallet Station

Off-the-shelf fixture helps with pallet positioning for more reliable palletizing jobs

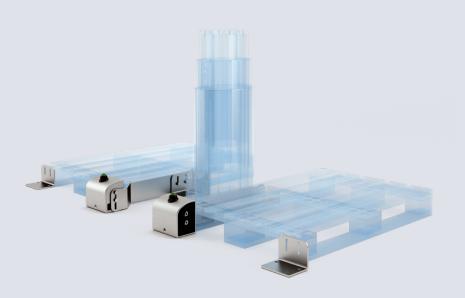
TECHNICAL SPECIFICATIONS

General Properties	Minimum	Typical	Maximum	Unit		
Sensor activation zone	0	-	6	[mm]		
Selisor activation zone	0	-	0.236	[inch]		
Weight		[kg]				
weight	34.5					
Dimensions [LVWVD]	828 x 428.5 x 207.5	-	828 x ∞ x 207.5	[mm]		
Dimensions [L x W x D]	32.6 x 16.87 x 8.17	-	32.6 x ∞ x 8.17	[inch]		
Pallet sizes		All siz	es *			
Interfaces / communication	1/0					
Characa hama arabura	0	-	60	[°C]		
Storage temperature	32	-	140	[°F]		
IP Classification		IP54				

^{*} Actual maximum pallet size depends on Robot Reach, Robot mounting height, Box size and EOAT size

POWER UP PRODUCTION

- Durable, floor-mounted pallet fixture that ensures consistent pallet positioning and can withstand hits from stackers and trucks
- Includes a built-in sensor for detecting pallet presence
- Off-the-shelf fixture saves significant engineering effort and shortens deployment time
- Durable floor mounted pallet fixtures designed to ensure consistent positioning.







2FG7

Parallel gripper for tight spaces and demanding payloads

TECHNICAL SPECIFICATIONS

General Properties		Minimum	Typical	Maximum	Unit		
Payload Force Fit		-	-	7 [15.5]	kg [lb]		
Payload	Form Fit		-	-	11 [24.3]	kg [lb]	
Total st	roke		-	38		mm	
	External	Fingers inwards	1 [0.039]	-	39 [1.53]	mm [inch]	
Grip Width	Externat	Fingers outwards	35 [1.37]	-	73 [2.87]	mm [inch]	
range	Internal	Fingers inwards	11 [0.43]	-	49 [1.92]	mm [inch]	
	mternat	Fingers outwards	45 [1.77]	-	83 [3.26]	mm [inch]	
Gripping	g force		20	-	140	N	
Gripping	g speed		16	-	450	mm/s	
Gripping	g repeatabil	lity	-	+/-0.1 [+/-0.004]	-	mm [inch]	
Hold wo	rkpiece if p	ower loss?	Yes				
IP Classification			IP67				
Dimensions [L, W, D]					mm [inch]		
Weight				1.14 [2.4]		kg [lb]	

POWER UP PRODUCTION

- Complete, easy-to-program, collaborative parallel gripper gets to work fast in a wide range
- Strong parallel gripper is easy to deploy in tight spaces and handles even demanding payload requirements
- Get fast ROI with a single flexible, intelligent, and precise gripper that can be easily customized and adapted for many different tasks
- Ready for use almost anywhere, with IP67 rating for harsh environments and ISO Class 5 certification for cleanroom use

Applications:



Material Handling









2FG7

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





Metal











3FG15 Flexible, large-stroke 3-finger gripper

TECHNICAL SPECIFICATIONS

General Properties		Minimum	Typical	Maximum	Unit	
Payload Force Fit		-	- 10/22		[kg] / [lb]	
Payload For	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	-	240	[N]	
Gripping force (a	adjustable)	3	-	100	[%]	
Gripping s (diameter ch		-	-	125	[mm/s]	
Gripping t (including brake		-	500	-	[ms]	
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:

















Cardboard



RG2/RG6

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:













Cardboard







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

Metal









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	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 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:













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	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 BLD	C		
Arms	4, adjustable by hand, 2	vacuum channe	ls	
IP Classification	IP54			
Dimensions (folded)	105 x 146 x 146 4.13 x 5.75 x 5.75			n] :h]
Dimensions (unfolded)	105 x 390 x 390 4.13 x 15.35 x 15.35			n] :h]
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:





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	pends on custor	n arms		
Vacuum cups	1	-	7	[pcs.]	
Gripping time	-	0.35	-	[s]	
Releasing time	-	0.20	-	[s]	
Vacuum pump	Integrated, el	ectric BLDC			
Arms	Replaceable,	customizable			
Dust filters	Integrated 50	µm, field replac	eable		
IP Classification	IP54				
Dimensions (folded)	101 x 100 x 100 [mm] 3.97 x 3.94 x 3.94 [inch]				
Weight	0.814 [kg] 1.79 [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:



Material Handling



Machine Tending



VGC10

Can be used with products of various

















MG10

Electric Magnetic Gripper reliably handles range of parts

TECHNICAL SPECIFICATIONS

General Properties	Minimum	Typical	Maximum	Unit	
Davidand	0.001	-	10	[kg]	
Payload	0.002	-	22.046	[lb]	
14-d-iii	Ø 65.4	-	-	[mm]	
Workpiece size required for full force	Ø 2.574	-	-	[inch]	
Magnetism resolution	-	100	-	[steps]	
Gripping time (including brake activation)	-	300	-	[ms]	
Hold workpiece if power is lost?	Yes				
Characa hamacanhura	0	-	55	[°C]	
Storage temperature	32	-	131	[°F]	
Motor	İn	tegrated, e	electric BLDC		
IP Classification		IP	67		
Dimensions [A L]		[mm]			
Dimensions [Ø, L]		[inch]			
Waish		0.8		[kg]	
Weight		[lb]			

POWER UP PRODUCTION

- Electric magnetic gripper offers fast out-of-the-box deployment without the complexity and costs of external air supply
- Built-in intelligence with easily adjustable force and part detection ensures reliable handling of a wide range of part sizes and weights
- Fast, compact and customizable gripper to fit all your application needs
- Ensure safe and reliable operation by maintaining grip even after power loss or emergency stop

Applications:





Material Handling





MG10

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







SP1/SP3/SP5 Gecko Single Pad Gripper

TECHNICAL SPECIFICATIONS

General Properties			Unit	
	SP1	1 / 2.2	[kg] / [lb]	
Maximum payload	SP3	3 / 6.6	[kg] / [lb]	
	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			
Detachment time 100-1000 (dependent on ro		100-1000 (dependent on robot speed)	[msec]	
Holds workpiece on power loss? Potential		Yes. How long? Potentially days if well centered and u	ındisturbed	
IP Classification		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			

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%			

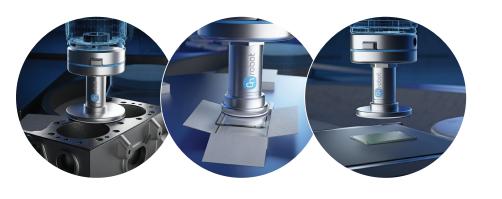
POWER UP PRODUCTION

- 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:



Gecko Single Pad Gripper







Plastic



sizes and materials, including:

Can be used with products of various









Soft Gripper

Explore new automation possibilities with certified food-grade soft gripper

TECHNICAL SPECIFICATIONS

General Properties	Minimum	Typical	Maximum	Unit			
Material	-	Two-compone	nt silicone rub	ber			
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			
Weight Base Part		0.77 /1.69		[kg] / [lb]			
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)		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)	77	x109 / 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:



Soft Gripper



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



Organic material















OnRobot Screwdriver Smart screwdriving solution for multiple processes

TECHNICAL SPECIFICATIONS

General Properties		Minimum	Typical	Maximum	Unit
Screw size range		M1.6	-	M6	
	Torque range	0.15 / 0.11	-	5 / 3.68	[Nm] / [lbft]
Torque	If torque < 1.33Nm/0.98lbft	-	0.04 / 0.03	-	[Nm] / [lbft]
ассигасу	If torque > 1.33Nm/0.98lbft	-	3	-	[%]
	Output speed	-	-	340	[RPM]
Screw length within full safety		-	-	35 / 1.37	[mm] / [inch]
Shank stroke (screw axis)		-	-	55 / 2.16	[mm] / [inch]
Shank preload (adjustable)		0	10	25	[N]
S	afety feature force	35	40	45	[N]
	Motor (x2)	Integrated, electric BLDC			
	IP Classification	IP54			
Dimensions		308x86x114 12.1x3.4x4.5		[mm] [inch]	
	Weight	2.5 / 5.51		[kg] / [lb]	
Sc	rew presenter sizes	M1.6; M2; M2.5; M3; M4; M5; M6			

POWER UP PRODUCTION

- Smart screwdriver easily automates multiple screwdriving processes with no downtime for manual changeovers
- Get the job done right—consistently and faster—with dynamic force control and intelligent error detection
- Expand your collaborative automation possibilities with built-in protective functions
- Get fast and easy deployment with automatic screw-feeding system and OnRobot's easy One System setup for any leading robot

Applications:



OnRobot Screwdriver













stic

Metal

14/--





OnRobot Sander

Complete surface finishing solution with fast and easy setup reduces complexity

TECHNICAL SPECIFICATIONS

General Properties		Minimum	Typical	Maximum	Unit		
Pad diameter		-		127 [5]	mm [inch]		
Pad height		-	-	9.5 [0.37]	mm [inch]		
Orbit size		-	-	5 [3/16]	mm [inch]		
Rotation spe	ed	1,000	-	10,000	RPM		
Ped type (3N	1: 20353)		Clean San	ding Disc Pad			
Pad media ty	/pe		Но	okit™			
Pad weight			0.1 [0.22]		kg [lb]		
Weight			kg [lb]				
IP rating		IP54					
Dimensions	(outer)	87 x 123 x 214 [3.42 x 4.84 x 8.42] mm [i			inch]		
Operating C	onditions	Minimum	Typical	Maximum	Unit		
Sanding pow	/ег	-	150	-	W		
	External voltage	-	30	-	V		
Operation	External power	-	150	-	W		
voltage	Tool connector voltage	-	24	-	V		
Tool connector power		-	2.4	-	W		
Operation te	emperature	0 [32]	-	50 [122]	°C [°F]		
Noise level a	t 10,000 RPM (3,000 RPM)	-	74 [44]	-	[dB]		

POWER UP PRODUCTION

- Powerful and durable electric sander requires no compressed air, significantly reducing running and maintenance costs
- Cost-effective Grit Changer allows automatic switching between sanding grits without operator intervention for increased efficiency
- Flexible tool can be used on a wide range of part geometries
- Sensing capabilities ensure precise adaptation to surface variations or part misalignment, improves product quality and consistency while reducing scrap
- Eliminates operator fatigue and hazards for easy compliance with local health and safety regulations

Applications:



Sanding, Polishing, Buffing





OnRobot Sander

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



















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					[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
- 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:



Material Removal



Material Handling







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











OnRobot Eyes

Adding vision to robotic applications has never been easier

TECHNICAL SPECIFICATIONS

Camera Characteristics							
Interface USB-C 3.x							
Output Resolution	1280 x 720	1280 x 720					
Working distance	400-1000 [15.75 – 39	400-1000 [15.75 – 39.37]					
Operating Temperature	0 – 35 [32 – 95]	0-35 [32-95]					
IP rating	IP 54						
Weight	0.260 [0.57]				kg [lb]		
Eyes Features					Unit		
Type of vision system	2.5 D						
Minimum part size	10x10 or 15 diamete	r [0.39x0.39 or 0.59	diameter]		mm [inch]		
Applications Supported	Detection, Sorting, Inspection, Landmark						
Mounting options supported	Robot and External						
	12 configurations (4	x 3)					
Reconfigurability when Robot mounted	Around robot's flanc	je	Tilt orientations				
	0 - 90 - 180 - 270		0 - 45 - 90		[degrees]		
Detection Repeatability	< 2 [< 0.078]				mm [inch]		
Detection Accuracy (typical)	External Mount		Robot Mount				
measured at 500 mm	2 [0.078]		2 [0.078]		mm [inch]		
Minimum Inspection Defect Size	5 [0.197]				mm [inch]		
	Waypoint distance from Landmark	Minimum error	Typical error	Maximum error			
Landmark accuracy **	200 [7.874]	0.2635 [0.0104]	0.6596 [0.0260]	0.9500 [0.0374]	mm [inch]		
	500 [19.68]	0.6586 [0.0259]	1.6490 [0.0649]	2.3750 [0.0935]	mm [inch]		
	1000 [39.37]	1.3173 [0.0519]	3.2981 [0.1298]	4.7500 [0.1870]	mm [inch]		

POWER UP PRODUCTION

- Adding vision to robotic applications has never been easier, with one-picture calibration, fast programming and seamless gripper integration
- Flexible, adaptable vision system with on-robot or external mounting is ideal for almost any collaborative application
- Affordable, efficient 2.5D vision offers depth perception for varying heights or stacked objects
- Easily sort, pick and place unstructured applications with high reliability using any robot arm
- One-shot detection for multiple objects minimizes cycle time
- Inspect objects using color and contour detection with or without a robot, and ensure consistent quality
- Automatic landmark enables dynamic working environments and mobile robot setups

Applications:





Material Handling Machine Tending





















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/us/partners.

Business Card