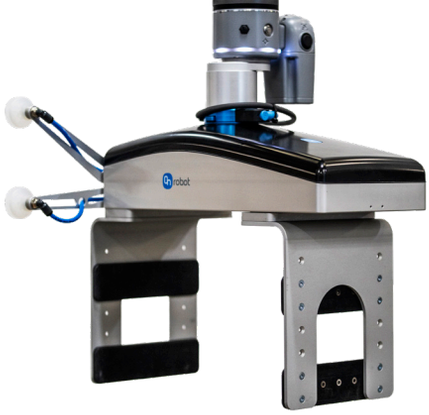
stack smart

Smart Palletising

Uncompromising quality. Unmatched affordability



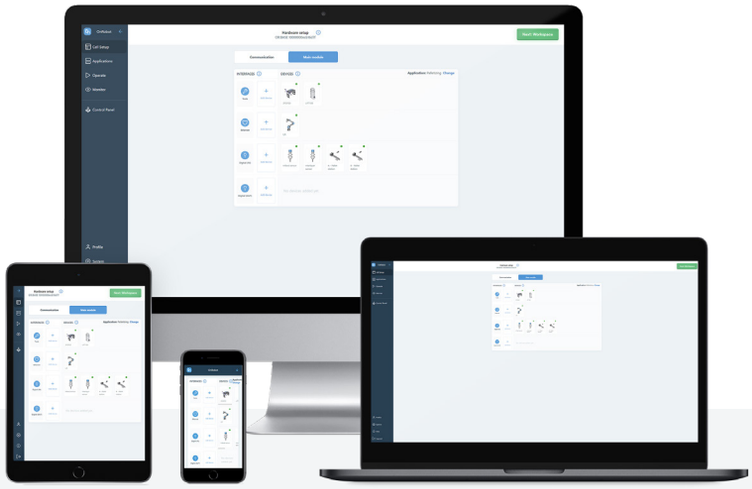
Smart Palletising

Uncompromising quality. Unmatched affordability

The StackSmart palletising solution is a fully automated, ready-to-deploy system designed for rapid integration into your manufacturing line. Engineered for versatility, StackSmart can be installed in just one day, helping you resolve end-of-line production challenges with lasting efficiency. Capable of handling a range of payloads and pallet heights, StackSmart adapts to various palletising requirements, offering an easy, reliable way to keep production steady, accurate, and streamlined.

Powered by

Engineered by LG Motion



"We believe it is probably the best performing palletiser on the market"

Gary Livingstone

Comprehensive automation solutions for end-of-line efficiency

Bringing you ready-to-deploy system designed for rapid integration into your manufacturing line, StackSmart has the expertise and innovation to elevate your automation strategy. Built on cutting-edge software and superior components, StackSmart's automation solutions bring the latest advancements in robotic technology to your facility. With industry-leading support from our skilled team, we're dedicated to understanding your specific requirements, ensuring that every solution we provide is tailored for success and backed by unparalleled service and support.

- Payloads up to 30 KG
- Max stack height: 2198 mm
- Suitable for UK & Euro pallets
- Single & dual-sided pallet stations
- Dual pallet & conveyor palletising
- Stacking rate: up to 10 cycles per minute
- Large 21.5" HD display
- Installed and ready to use in one day

Don't just take our word for it – come and visit our factory for a demonstration.

For more details visit
stacksmart.co.uk
or call **01256 365 600**
to speak to one of the team

Management information and productivity tools

Real-time performance insights

Empower decision-making with instant access to real-time management reports that track operating efficiency. StackSmart features advanced analytics tools using OnRobot's award-winning D:PLOY, delivering detailed data on system performance, throughput, and downtime. These insights give managers immediate visibility into productivity, enabling prompt adjustments and continuous optimisation. With real-time data at your disposal, you can maximise operational efficiency, increase output, and reduce costs.

Empowering a global workforce with multilingual support

StackSmart features a multilingual touch screen interface, breaking down language barriers and enabling seamless operation for your diverse team. Whether your operators speak English, Spanish, French, or any other language, the system can be tailored to meet their linguistic needs. This ensures every operator can confidently navigate the system in their preferred language, enhancing communication, productivity, and collaboration across your organisation.

Redefining productivity

Stay ahead of shifting production demands with unmatched adaptability. StackSmart offers customisable configurations and programmable options, allowing your team to fine-tune operations to meet specific needs. Whether adjusting pallet patterns or optimising stacking sequences, StackSmart delivers the flexibility required to remain agile and responsive in today's fast-changing market.

Prioritising safety, protecting your workforce

At the core of StackSmart is an unwavering commitment to safety. Engineered with a deep understanding of biomechanical limits, our systems take over the heavy lifting, repetitive tasks, and awkward postures that often lead to musculoskeletal injuries in manual palletising. Through real-time monitoring of load and force distribution, our technology ensures that all tasks are performed safely within established limits, eliminating personal injury risks and promoting long-term workforce well-being. Intuitive visual indicators and proactive alarms enable operators to swiftly address potential hazards, creating a safer, more secure working environment for all.

Specifications

Robot specification		SS1200	SS2500	SS3000
TM model		TM12SX	TM25SX	TM30SX
Weight		33.3 KG	81.3 KG	80.3 KG
Maximum payload (not including gripper)		12 KG	25 KG	35 KG
Reach		1300 mm	1902 mm	1702 mm
Joint ranges	J1, J2, J4, J5, J6	+/- 360 °	+/- 360 °	+/- 360 °
	J3	+/- 162 °	+/- 166 °	+/- 170 °
Speed	J1, J2	130 °/s	100 °/s	100 °/s
	J3	210 °/s	130 °/s	130 °/s
	J4	225 °/s	195 °/s	195 °/s
	J5	225 °/s	210 °/s	210 °/s
	J6	450 °/s	225 °/s	225 °/s
Maximum speeds		4.5 m/s	5.2 m/s	5.2 m/s
Repeatability		+/-0.03 mm	+/-0.05 mm	+/-0.05 mm
Working environment temp.		0 °C - 50 °C		
IP rating		IP65		

Software specification

OnRobot A/S D:PLOY	

Palletiser specification

Cycle time	Up to 10 cycles per minute		
Footprint excl. guarding (SP-single pallet DP-dual pallet)	1694 x 2903 mm (SP) 2699 x 2903 mm (DP)	1954 x 2903 mm (SP) 2896 x 2903 mm (DP)	1954 x 2903 mm (SP) 2896 x 2903 mm (DP)
Footprint incl. guarding (SP-single pallet DP-dual pallet)	2383 x 3070 mm (SP) 3150 x 2970 mm (DP)	2375 x 3065 mm (SP) 3090 x 3558 mm (DP)	2375 x 3065 mm (SP) 3090 x 3558 mm (DP)
Max. pallet stacking height (from the base of the pallet) *subject to design approval	1298 mm w/o lifter 2198 mm with lifter	2198 mm	2198 mm
Customised pallet size (max 1200x1200 mm)	✓	✓	✓
Robot mount	Lifter/Pedestal	Pedestal	Pedestal
Certification	UKCA certified by third party		
Interlayer compatible	✓	✓	✓
Lifter compatible	✓	N/A	N/A
Lifter stroke	900 mm	N/A	N/A
Safety scanner implemented	✓	✓	✓
Touchscreen HMI	✓	✓	✓
Multiple grippers available	VG10, VGC10, VGP20, VGP30, 2FGP20		
Electrical connections	Mains 13A plug, 230V, 50Hz, 13A		

Specifications subject to change. Correct at the time of printing.

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StackSmart is a product of LG Motion