

UR cobots for precision palletizing



With their small footprint, unrestricted workspace and high repeatability, UR cobots are ideal for precision palletizing in many industries, including food & beverages, metalworking, machining, plastics, moulding & others.

Modify and create programs for instant use

The dedicated palletizing wizard in our Polyscope interface software enables you to program your application in minutes. Teach the cobot a few locations by dragging it into position, and the wizard will create a palletizing structure for you. If parts are moved to your cobot by conveyor, connect an absolute or incremental encoder to our high-frequency inputs to track the parts and pick them up on the fly.

Creating new programs normally takes just 30 minutes, but if your cobot is too busy, you can use our free URSim offline simulator to modify an existing program or create a new one for instant loading and use. You can save as many application programs as you need, easily transferring them to and from your cobot via a thumb drive or our built-in FTP server.

Eliminate the need for extra hardware

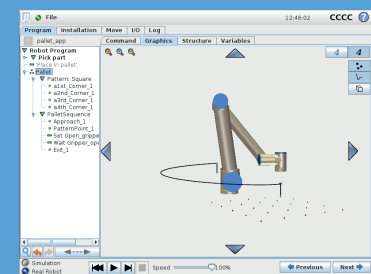
An integrated digital I/O interface in the control box often eliminates the need for extra hardware to control other parts of the machine the robot interfaces with, reducing the cost of your application as a whole. Your gripper connects directly to the I/Os on our tool connector (2DI, 2DO, 2AI, plus new UART serial interface only in e-Series), eliminating the need for an external cable along the robot arm. In more complex machines, you can use the integrated field bus ethernet-based protocols to manage communications.

Business benefits

- Combat rising packaging costs
- Make sure your deliveries are always correctly counted and packed
- Streamline your packaging and palletizing operations
- Relieve workers from strenuous repetitive tasks
- Free up employees to do higher value work

Advantages

- Very small footprint (128, 149 or 190 mm diameter)
- Unrestricted workspace (360° at every joint)
- High pose repeatability (UR3e and UR5e: ± 0.03 mm, UR10e: ± 0.05 mm)
- Fast programming, unlimited saved programs
- Extensive, flexible connectivity/communications



Contact

Want to find out more about how cobot-assisted process work can help your business?

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 **UNIVERSAL ROBOTS**

universal-robots.com

Cobot palletizing in your industry

Cobots from Universal Robots are used for palletizing in many industries, with those listed below especially common. If you don't see your industry below, contact us to find out how a UR cobot can help your business.

Food and beverage

- Cobot's outer casing designed specifically to reduce the risk of dust/debris accumulation
- Save your workforce from repetitive and/or dangerous work in hot, cold or otherwise unpleasant environments
- Cobot arms improve consistency while reducing waste
- Non-stop productivity in the food production chain
- Average payback time: 3-12 months

Metalwork, Machining

- Boost productivity and improve tool and part precision
- Easily adjust production lines despite variable processes, materials, and specialized products
- Benefit from pose repeatability of ± 0.03 mm with UR3e/UR5e or ± 0.05 mm with UR10e
- Reduce injury risk while increasing precision with complex tasks involving close proximity to dangerous machinery

Molding

- Cover all areas of plastic/polymer production, including de-gating,
- PCB loading/unloading, and pick & place projects
- Reduce employee exposure to noxious production gases
- Enhance safety by protecting line workers from plastic shavings and handling with sharp objects
- Spare employees from repetitive work while increasing your production capacity
- Lightweight, space-saving and easy to re-deploy to multiple applications without altering production layout

CASE Atria

Country Sweden

Cobot UR5



Result

Optimized material usage in the packaging department, reducing carton waste by 25 percent and slashing change-over time from six hours to just 20 minutes.

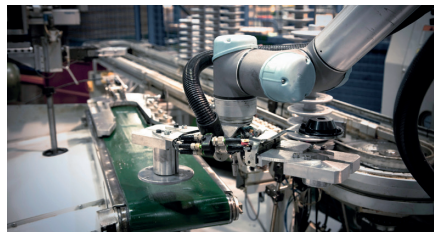
See the video:

universal-robots.com/case-stories/atria

CASE Multi-Wing

Country Czech Republic

Cobot UR5



Result

Reduced unit production costs 10-20% and increased capacity by 336 hours per year, thanks to 70% faster feed and 10 seconds time savings on machine part replacement.

See the video:

universal-robots.com/case-stories/multi-wing

CASE Dynamic Group

Country United States

Cobot UR5



Result

Quadrupled production capacity and reduced scrap volumes from significantly high to near zero.

See the video:

universal-robots.com/case-stories/dynamic-group



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