



INTRAPAL, Strong Palletizing Gripper

Heavier handling powered by g-Series and PolyScopeX

UR g-Series robots deliver higher power directly at the tool flange. The Weiss Robotics INTRAPAL servo gripper leverages this to deliver up to 1200 N gripping force, enabling secure handling of larger load carriers in palletizing workflows.

With PolyScope X and the GRIPLINK plug-in, integration is simple and your cell is production-ready faster.

- ✓ **Higher power at the flange (24V/48V)**
Full gripping force, heavier load carriers
- ✓ **Runs direct off the cobot**
No external cabling along the arm required
- ✓ **Powered by PolyScope X**
Cleaner setup, simpler programming, live monitoring



Built for palletizing and intralogistics – from production lines to warehousing and order picking – INTRAPAL ensures efficient, stable handling of a wide variety of formats and load carriers.

Product Overview

Product name	Product name	Typical applications	Compatible UR robots	Product name
INTRAPAL 1200-280	Heavy payload palletizing	Palletizing & de-palletizing, order picking, warehouse handling of beverage crates, KLT boxes, cartons	UR g-Series* (NEW) UR e-Series	PolyScope X PolyScope 5.5+

*Higher payload performance enabled when used with UR g-Series robots supporting higher flange power.

Product Characteristics

- Servo-electric actuation – no compressed air
- Integrated gripping-force control + position feedback
- One-sided parallel kinematics, pre-positionable finger
- Programmable force (150–1200 N) & 280 mm stroke
- Smart IO-Link fingers – sensors direct at the gripper
- Integrated web server for setup & diagnostics
- GRIPLINK plug-in for PolyScope X – download & integrate
- Optional OPT-IPL-MB Tool-I/O package; IP54 on request

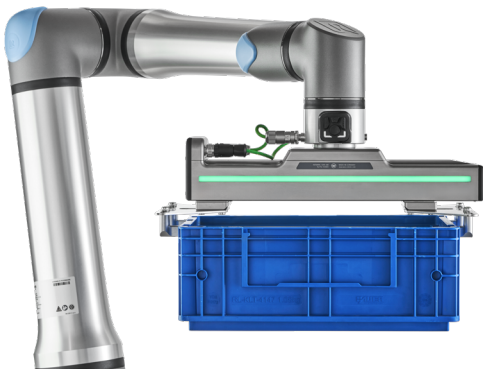
Why INTRAPAL on UR g-Series robots

Gen 7 builds power, connectivity and configurability into the robot, so end-of-arm tools do more with less hardware. 24V/48V at the flange means INTRAPAL gets the power it needs for strong, reliable gripping, with fewer cables and a smaller interference contour.

PolyScope X + the GRIPLINK plug-in turn integration into a few clear commands;

Grip → Release → Clamp

with live force, width and system status in the sidebar.



Key benefits

- ✓ **Built for intralogistics performance**
 - High load capacity with compact, efficient, design
 - Reliable handling of diverse load carriers
- ✓ **Seamless integration with UR**
 - Certified robot plug-ins for easy setup and programming
 - Compatible with modern UR software environment
 - UR g-Series ready, collaborative-capable industrial performance
- ✓ **Optimized for cobot workflows**
 - No external pneumatics required (fully electric)
 - Optional tool I/O integration via gripper connectivity



Product Overview

Actuation	Servo-electric	Repeatability	± 0.02 mm
Gripping force	150 - 1200 N	Max. finger speed	190 mm/s
Full stroke	280 mm	Finger length	300 mm max
Workpiece weight	60 kg form / 30 kg force	Weight / finger	5.5 kg max
Cycle time	0.5 s (at 4 mm)	Protection	IP40 (IP54 opt.)
Communication	Ethernet TCP/IP, MODBUS RTU	Operating temp.	0 - 50 °C
Power	24 VDC, 1 A (peak 4.6 A)	Weight (with mounting plate)	6.2 kg
Dimensions	430 x 120 x 105 mm	ESD-compliant	Yes

Get it on the UR Marketplace

Explore the INTRAPAL listing, the GRIPLINK plug-in for PolyScope X, and integration details.

