UNIVERSAL ROBOTS

Learn More about the UR Series

Automate with UR Series

Rugged. Powerful. Practical.

UR Series delivers industrial-grade performance with collaborative simplicity. Designed for harsh conditions and cleanroom compliance, it combines speed, strength and flexibility with easy deployment and maintenance—making automation practical for high-performance applications.

Why Universal Robots?

Proven Brand & Ecosystem

- 20+ years of industry leadership and 100k+ robots deployed
- A robust ecosystem of UR-compatible solutions and accessories

Safe by Design

- Ultralight weight design and force-torque sensing enables safe, flexible automation in space-limited and co-working environments
- International standard compliance ensures faster deployment and built-in safety that protects your people and your assets

Scalable Software

- Low learning curve + high capability ceiling allow you to start simple and scale to advanced
- PolyScope included out of the box + lifetime upgrades provides predictable Total Cost of Ownership and access to the latest software

Flexibility & ROI

- Deployable by 1-2 people without major infrastructure changes
- Lightweight design and intuitive programming allow fast changeovers for new tasks or lines
- Lifetime PolyScope upgrades, built-in protocols, and no hidden fees

Why the UR Series?

Rugged Reliability

- Enclosed joints for durability
- 50%-part reduction delivers improved reliability and serviceability
- IP65: dust tight and low-pressure water jet protection
- Cleanroom class 4: suitable for food, pharma, and electronics applications requiring strict contamination control

Industrial Capability

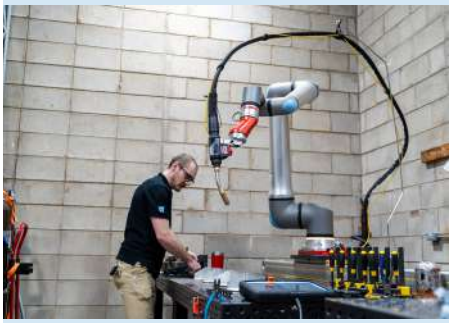
- Payload up to 35kg with expanded payload specifications for enhanced performance
- Fast performance with 4-5m/s Tool Center Point speeds
- Enhanced algorithms for heavy payload performance

Collaborative Simplicity

- 1–2 person installation and reduced infrastructure requirements
- Reduced power consumption compared to traditional industrial robots
- Collaborative-capable: industrial performance with collaborative features

UR Series Industries and Applications

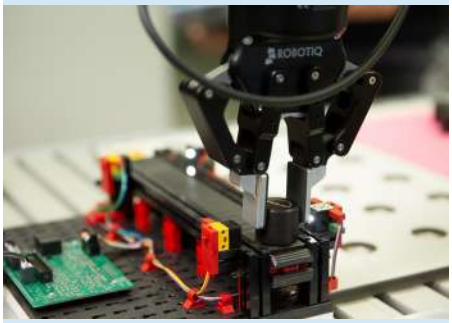
Metals & Fabrication Industries



Dirty jobs demand rugged automation.

UR Series thrives in harsh conditions with IP65 protection and enclosed joints – ideal for welding and machine tending applications.

Electronics Manufacturing



Compliance in clean environments.

Cleanroom Class 4 compliance makes UR Series perfect for material handling and assembly tasks in contamination-sensitive production.

End of Line Packaging

Heavy lifting made practical.

Extended payload specs and washdown-ready design enable palletizing and packaging without costly enclosures.

Meet the UR Series Family

Specification Highlights

	UR8 Long		UR15		UR18		UR20		UR30	
Payload	8 kg (17.6 lbs)		15 kg (33.1 lbs)		18 kg (39.7 lbs)		20 kg (44.1 lbs)		30 kg (66.1 lbs)	
Reach	1750 mm (68.9 in)		1300 mm (51.18 in)		950 mm (37.4 in)		1750 mm (68.9 in)		1300 mm (51.18 in)	
Footprint	Ø204 mm		Ø204 mm		Ø204 mm		Ø245 mm		Ø245 mm	
Maximum TCP speed	5 m/s		5 m/s		4 m/s		5 m/s		4 m/s	
Pose Repeatability per ISO 9283	± 0.08 mm		± 0.05 mm		± 0.05 mm		± 0.1 mm		± 0.1 mm	
Force sensing, tool flange/torque sensor	**Force, x-y-z**	**Torque, x-y-z**	**Force, x-y-z**	**Torque, x-y-z**	**Force, x-y-z**	**Torque, x-y-z**	**Force, x-y-z**	**Torque, x-y-z**	**Force, x-y-z**	**Torque, x-y-z**
Range	± 150.0 N	± 10.0 Nm	± 150.0 N	± 10.0 Nm	± 150.0 N	± 10.0 Nm	± 200.0 N	± 20.0 Nm	± 200.0 N	± 20.0 Nm
Precision	± 7.5 N	± 0.2 Nm	± 7.5 N	± 0.2 Nm	± 7.5 N	± 0.2 Nm	± 5.5 N	± 0.2 Nm	± 5.5 N	± 0.2 Nm
Accuracy	± 8.3 N	± 0.5 Nm	± 8.3 N	± 0.5 Nm	± 8.3 N	± 0.5 Nm	± 10.0 N	± 0.1 Nm	± 10.0 N	± 0.1 Nm
Safety functions	17 configurable safety functions									
In compliance with	EN ISO 13849-1 (PLd category 3) and EN ISO 10218-1									
IP Classification	IP65									
Power consumption (average)										
Maximum power	615 W		550 W		570 W		750 W		750 W	
Moderate operating settings	350 W		350 W		350 W		500 W		300 W	

UR | MiR
TERADYNE Robotics

The Innovator in Collaborative & Autonomous Mobile Robotic Technologies
Teradyne Robotics companies, Universal Robots (UR) and Mobile Industrial Robots (MiR), empower companies to optimize manufacturing processes, leading to improved product quality, and increased productivity, while generating the fastest ROI.

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