

TECHNICAL DATA

Overview of all collaborative robots from the supplier Universal Robots.

Name	UR3	UR5	UR10	UR3e	UR5e	UR10e	UR16e	UR20	UR30	
Article number	400110103	400110105	400110110	400110203	400110205	400110210	400110216	400200520	400200530	
Working radius	500 mm	850 mm	1300 mm	500 mm	850 mm	1300 mm	900 mm	1750 mm	1300 mm	
Max. load capacity	3 kg	5 kg	10 kg	3 kg	5 kg	10 kg	16 kg	20 kg	30 kg	
Repeatability	+/- 0,1 mm	+/- 0,1 mm	+/- 0,1 mm	+/- 0,03 mm	+/- 0,03 mm	+/- 0,05 mm	+/- 0,05 mm	+/- 0,05 mm	+/- 0,05 mm	
Typical TCP speed	1 m/s							2 m/s	2 m/s	
Joint rotation	+/- 360°									
Controller: Digital inputs	16	16+4								
Controller: Digital outputs	16									
Controller: Analog inputs	2									
Controller: Analog outputs	2									
Controller: Max. Current of the I/Os	2A									
Tool: Digital inputs	2									
Tool: Digital outputs	2									
Tool: Analog inputs	2 (if the serial interface is not used)									
Tool: Serial interface	0	UART (9.6 k-5 Mbps)								
Tool: Max. Current of the I/Os	0,6 A	1,5 A	2,0 A							
Communication	TCP/IP, Modbus TCP, Profinet, Ethernet IP, Optional: Euromap 67									
Force / torque determination	Calculated variable	Integrated F/T sensor								
Accuracy force x/y/z	k.A.			3,5 N	4,0 N	5,5 N	5,5 N	10 N	10 N	
Resolution force x/y/z	k.A.			2,0 N	3,5 N	5,0 N	5,0 N	5,5 N	5,5 N	
Accuracy Moment Rx/Ry/Rz	k.A.			0,1 Nm	0,3 Nm	0,5 Nm	0,5 Nm	1 Nm	1 Nm	
Resolution Moment Rx/Ry/Rz	k.A.			0,1 Nm	0,2 Nm	0,2 Nm	0,2 Nm	0,2 Nm	0,2 Nm	
Typical power consumption	125 W	150 W	250 W	100 W	200 W	350 W	350 W	500 W	750 W	
Safety function (software)	15		17							
Safety function (hardware)	Cat. 2 (equivalent Cat. 3), PL d			Cat. 3, PL d						
Weight	11,0 kg	18,4 kg	28,9 kg	11,2 kg	20,6 kg	33,5 kg	33,1 kg	64 kg	63,5 kg	
ISO Cleanroom Classification Controller	5									
ISO cleanroom classification robot arm	6									
IP Classification Controller	20			44						44
IP classification of the robot arm	64	54	54	54				65	65	
IP Classification Controller	20			44						44
IP classification of the robot arm	64	54	54	54				65	65	

You can download all robot-specific data sheets under the following link:

[https://www.universal-robots.com/articles/?filter_Applications\[\]=68558&filters\[\]=68558](https://www.universal-robots.com/articles/?filter_Applications[]=68558&filters[]=68558)

*All information is supplied without guarantee - for comprehensive technical information, please select the link above and download the specific data sheet.