Game Changing Benefits

Fast Set-Up

- The revolutionary set-up of the Robot has reduced typical robotic deployment measured in weeks to a matter of hours.
 The average set-up time is only half a day.
 The out-of-box experience for an untrained operator to unpack it, mount it and program the first simple task is typically less than an hour.



- No programming experience required Set up and operate the robots with intuitive, 3D visualisation. Simply move the robot arm to desired waypoints or touch the arrow keys on the easy-to-use touch screen tablet.

Flexible Re-Deployment

- Light weight
- Space-saving Easy to re-deploy to multiple applications without changing the
- casy to re-deply a minimple appinations without changing the existing production layout. Moving the robot to new processes is fast and easy Agility to automate almost any manual task including those with small batches or fast change overs. Capable of re-using programs for recurrent tasks.

Collaborative & Safe

- Human operators can now be replaced in dirty, dangerous and dull jobs to reduce repetitive strain and accidental injuries. 80% of the thousands of UR robots worldwide operate with no safety guarding (after risk assessment), right beside human operators. The safety system of the robots is approved and certified by TÜV (The German Technical Inspection Association)

Fastest Payback in the Industry

- Advanced robotic automation
 No traditional added costs associated with robot programming, set-up and dedicated shielded work cells.
 Finally Robotic automation is affordable for small and medium
- Finally Robotic automation is affordable for small and medium sized enterprises (SME).

The UR Robot offers significant productivity and safety advantages, even for small operations & promises fastest return for automation investments.

Applications







































ROBOTICS

ROBOTIQ



Combrian











FlexiBowl"

Alstrut

400+

cobots deployed

India

F TripleR cobotics

GRIP

Alstrut India Private Limited 267 Kilpauk Garden Road Chennai 600 010, India

+91-44-4294-9000

ur@alstrut.com



UNIVERSAL ROBOTS Platinum Distributor





Universal Robots

75,000+ cobots deployed Globally

UR+ Ecosystem Partnership - The Largest Lineup cobotizur

SPIN

Optimize with human-robot collaboration Productivity. Adaptability. Reliability.

UNIVERSAL ROBOTS

Technical specification

Robot arm

			54	0				***			UR30	
Construent Laborate Construent	UR3e	And the second	UR5e		UR10e	-	UR16e	A.	UR20		UR30	
pecification												
yload	3 kg (6.6 lbs)		5 kg (11 lbs)		12.5 kg (27.5 lbs)	16 kg (35.3 lbs)		20 kg (44.1 lbs)		30 kg (66.1 lbs)	
ach	500 mm (19.7 in)		850 mm (33.5 in)		1300 mm (51.2)	in)	900 mm (35.4 in)		1750 mm (68.0 in)	1300 mm (51.2 in)
grees of freedom		< 610	tating joints >						< 6 rol	ating joints >		
gramming	< 12 inch touchscreen with PolyScope graphical user interface >						<12 inch touchscreen with PolyScope graphical user interface>					
erformance												
wer consumption Maximum power Moderate operating settings	300 W 100 W		570 W 200 W		615 W 350 W		585 W 350 W		750 W 300 W		750 W 300 W	
erating temperature range	< Ambient temperature: 0-50 °C (32-122 °F) >						< Amblent temperature: 0-50 °C (32-122 °F) >					
fety functions	< 17 configurable safety functions >						< 17 configurable safety functions >					
compliance with irce sensing, tool flange/torque	< EN ISO 13849-1 (PLd category 3) EN ISO 10218-1 >						< EN ISO 13849-1 (PLd category 3) EN ISO 10218-1 >					
orce sensing, tool nange/torque ensor ange recision couracy	Force, x-y-z 30.0 N 2.0 N 3.5 N	Torque, x-y-z 10.0 Nm 0.1 Nm 0.1 Nm	Force, x-y-z 50.0 N 3.5 N 4.0 N	Torque, x-y-z 10.0 Nm 0.2 Nm 0.3 Nm	Force, x-y-z 100.0 N 5.0 N 5.5 N	Torque, x-y-z 10.0 Nm 0.2 Nm 0.5 Nm	Force, x-y-z 160.0 N 5.0 N 5.5 N	Torque, x-y-z 10.0 Nm 0.2 Nm 0.5 Nm	Force, x-y-z 200.0 N 5.5 N 10.0 N	Torque, x-y-z 20.0 Nm 0.2 Nm 0.1 Nm	Force, x-y-z 200.0 N 5.5 N 10.0 N	Torque, x-y-z 20.0 Nm 0.2 Nm 0.1 Nm
lovement												
pical TCP speed	1 m/s		1 m/s		1 m/s		1 m/s		2 m/s		2 m/s	
se repeatability per ISO 9283	± 0.03 mm		± 0.03 mm		± 0.05 mm		± 0.05 mm		± 0.1 mm		± 0.1 mm	
is Movement Base Shoulder Elbow Wrist 1 Wrist 2 Wrist 3	# 360° # 360° # 360° # 360° # 360° # 360° Infinite	Maximum speed ±180°/s ±180°/s ±180°/s ±360°/s ±360°/s ±360°/s	Working range ± 360° ± 360° ± 360° ± 360° ± 360° ± 360°	Maximum speed ± 180°/s ± 180°/s ± 180°/s ± 180°/s ± 180°/s ± 180°/s	Working range ± 360° ± 360° ± 360° ± 360° ± 360° ± 360°	Maximum speed ±120'/s ±120'/s ±180'/s ±180'/s ±180'/s ±180'/s	Workling range ± 360° ± 360° ± 360° ± 360° ± 360° ± 360°	Maximum speed ± 120 % ± 120 % ± 180 % ± 180 % ± 180 % ± 180 %	Working range ± 360° ± 360° ± 360° ± 260° ± 360° ± 360°	Maximum speed ± 1201/s ± 1201/s ± 1501/s ± 2101/s ± 2101/s ± 2101/s	Working range ± 360° ± 360° ± 360° ± 360° ± 360° ± 360°	Maximum speed ± 120°/s ± 120°/s ± 150°/s ± 210°/s ± 210°/s ± 210°/s
eatures												
classification	IP54 water protection		IP54 water protection		IP54 water protection		IP54 water protection		IP65 water protection		IP65 water protection	
leanroom classification 50 14644-1 Notity and payload	Class 6 at 20%* Class 7 at ~- 40%	*	Class 4 at 20%* Class 5 at >- 40%*		Class 5 at <= 40 Class 6 at 80%*		Class 5 at <=40%* Class 6 at 80%*					
olse	< 60 dB(A)		< 65 dB(A)		< 65 dB(A)		< 65 dB(A)		< 65 dB(A)		< 65 dB(A)	
n mounting	Any orientation		Any orientation		Any orientation		Any orientation		Any orientation		Any orientation	
Digital in Digital in Digital out Analog in	2 2 2		2 2 2		2 2 2		2 2 2		2 2 2		2 2 2	
ol I/O power supply voltage	12/24 V		12/24 V		12/24 V		12/24 V		12/24 V		12/24 V	
ol I/O power supply	600 mA		1.5 A (Dual pin) 1 A (Single pin)		2 A (Dual pin) 1 A (Single pin)		2 A (Dual pin) 1 A (Single pin)		2 A (Dual pin) 1 A (Single pin)		2 A (Dual pin) 1 A (Single pin)	
hysical												
otprint	Ø 128 mm		Ø 149 mm		Ø 190 mm		Ø 190mm		Ø 245 mm		Ø 245 mm	
terials	< Aluminium, Plastic, Steel >							< Aluminium, Plastic, Steel >				
ol flange connector type ble length (robot arm)	< M8 M8 8-pin (male), EN ISO-9409-1-50-4-M6 > < 6 m (236 in) >				< M8 M8 8-pin (male), EN ISO 9409-1-50-4-M6 >		< M8 M8 8-pin (male), EN ISO-9409-1-50-4-M6 >		M8 M8 8-pin (female) EN ISO-9409-1-80-6-M8 < 6 m (236 in) >		M8 M8 8-pin (female) EN ISO-9409-1-80-6-M8	
ight including cable	11.2 kg (24.7 lbs) 20.6 kg (45.4 lbs)			33.5 kg (73.9 lbs) 33.1 kg (73 lbs)						A		
umidity	< ± 90% RH (non-condensing) >				50.0 mg (73.9 lb)		< ≤ 90% RH (non-condensing)			(non-condensing) >	63.5 kg (139.9 lbs	



Industry standard communication protocols such as Modbus, PROFIsafe, and Ethernet/IP are included in all cobot models. Our open platform enables manufacturers to expand connections between cobots and machines without hidden costs.

UR's e-Series cobots are certified by TüV NORD for ISO10218-1 and safety functions are rated as Cat.3 PL d according to ISO 13849-1. It is, however, crucial to perform a risk assessment to ensure all required safety measures are in place.

