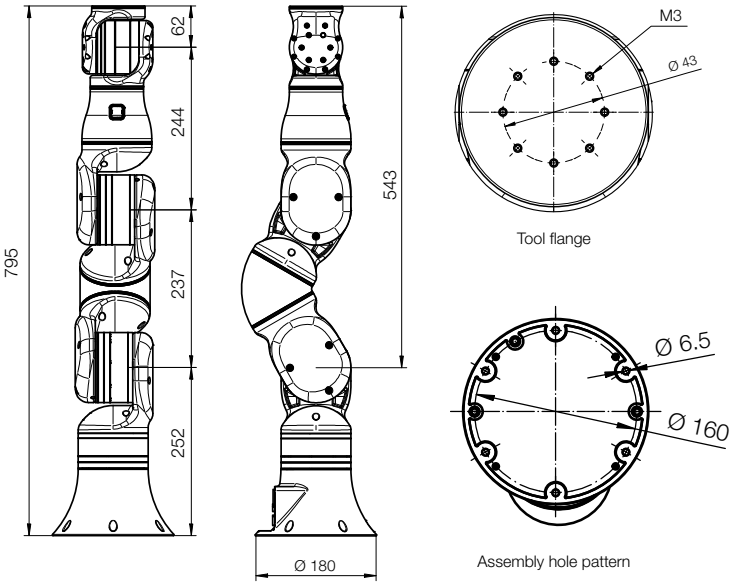
ReBeL® articulated arm robot

ReBeL® 4 DOF





Technical data

The name "ReBeL®" stands for "Robotic embedded BLDC and electronics Link". The robot is perfectly suited for cobot applications due to its compact and lightweight design. This makes it particularly suitable for assembly tasks, quality inspection tasks and the service area. Optionally, we offer the robot with four or six degrees of freedom, as well as with or without a control system.

Robot specifications

Technical data		Unit
Max. load capacity	3	kg(1)
Reach	543	mm
Nominal reach	350	mm
Dynamics	min. 7	Picks/min(2)
Weight	6.3	kg
Linear speed	0.2	m/s
Max. speed	45	°/s
Ø Power consumption	40	W
Max. power consumption	288	W
Temperatures	0-40	°C(3)
Programming	Windows PC (iRC)	
Degrees of freedom	4	DOF
Installation position	horizontal/overhead	
Repeatability	± 1	mm

(1) The max. payload is in relation to the reach
(2) The information is based on the pick definition, see next page payload/reach graph
(3) All technical data is based on operation at room temperature (20-25°C)
(4) Testing was carried out following DIN EN ISO 14644-1
(5) In relation to the highest equivalent continuous sound level

Specifications

Areas		Unit
Cleanroom class	4(4)	
Volume	58.2	dBA(5)
IP class	-	-
Power supply	210-230	VAC
Operating voltage	24	V
Cable length	2.5	m
Robot colour	black/orange	

Communication

Interface	Quantity	
I/O Connection base		
Digital IN	7	
Digital OUT	7	
Voltage supply	24	V
Max. power supply	1.5	A
I/O Connection axis 4		
Digital IN	2	
Digital OUT	2	
Voltage supply	24	V
Max. power supply	0.75	A
Ethernet port for:	1 port	
Modbus	TCP/IP	
CRI interface	TCP/IP	

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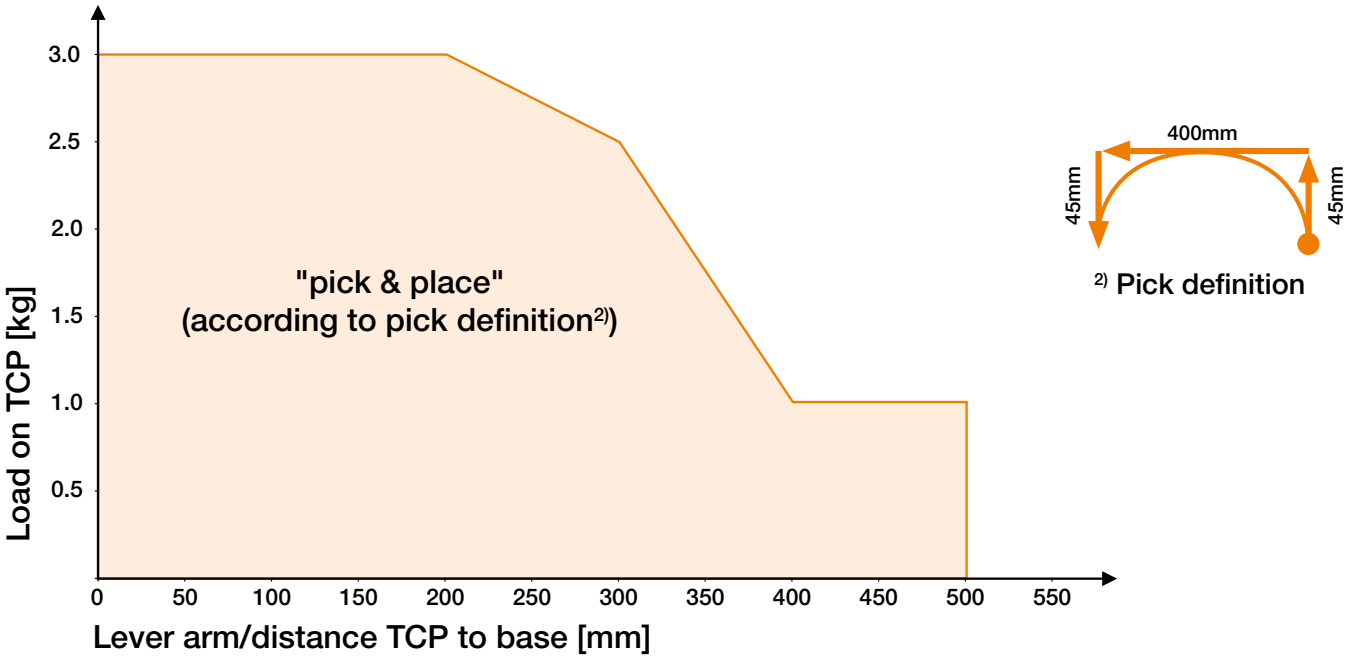
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Load/reach graph

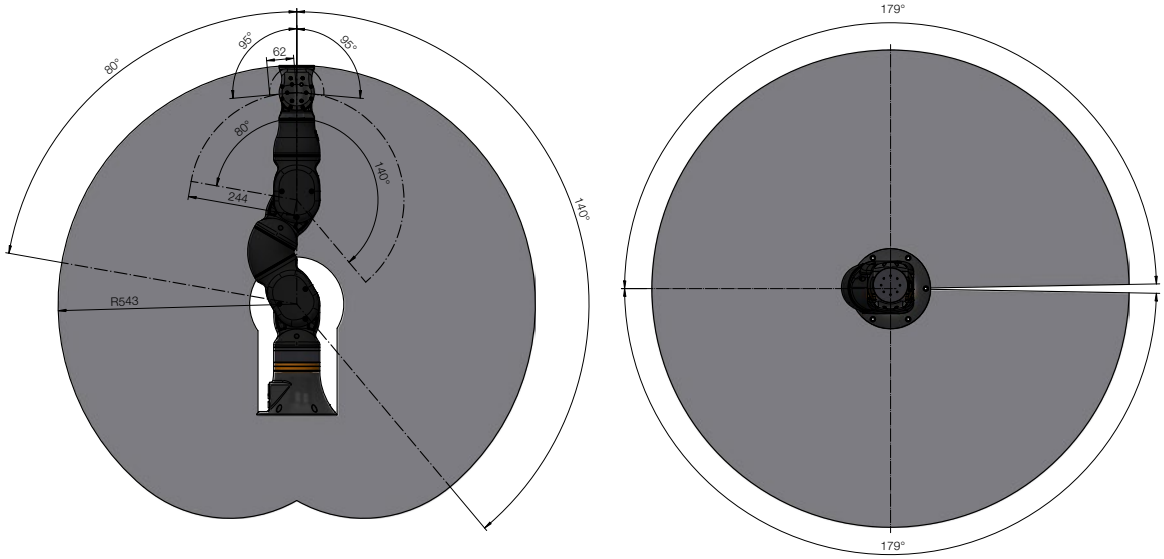


2) Pick definition

Movement

Axis	Negative		Positive
Axis 1	-179°	up to	+179°
Axis 2	-80°	up to	+140°
Axis 3	-80°	up to	+140°
Axis 4	-95°	up to	+95°

Workspace



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