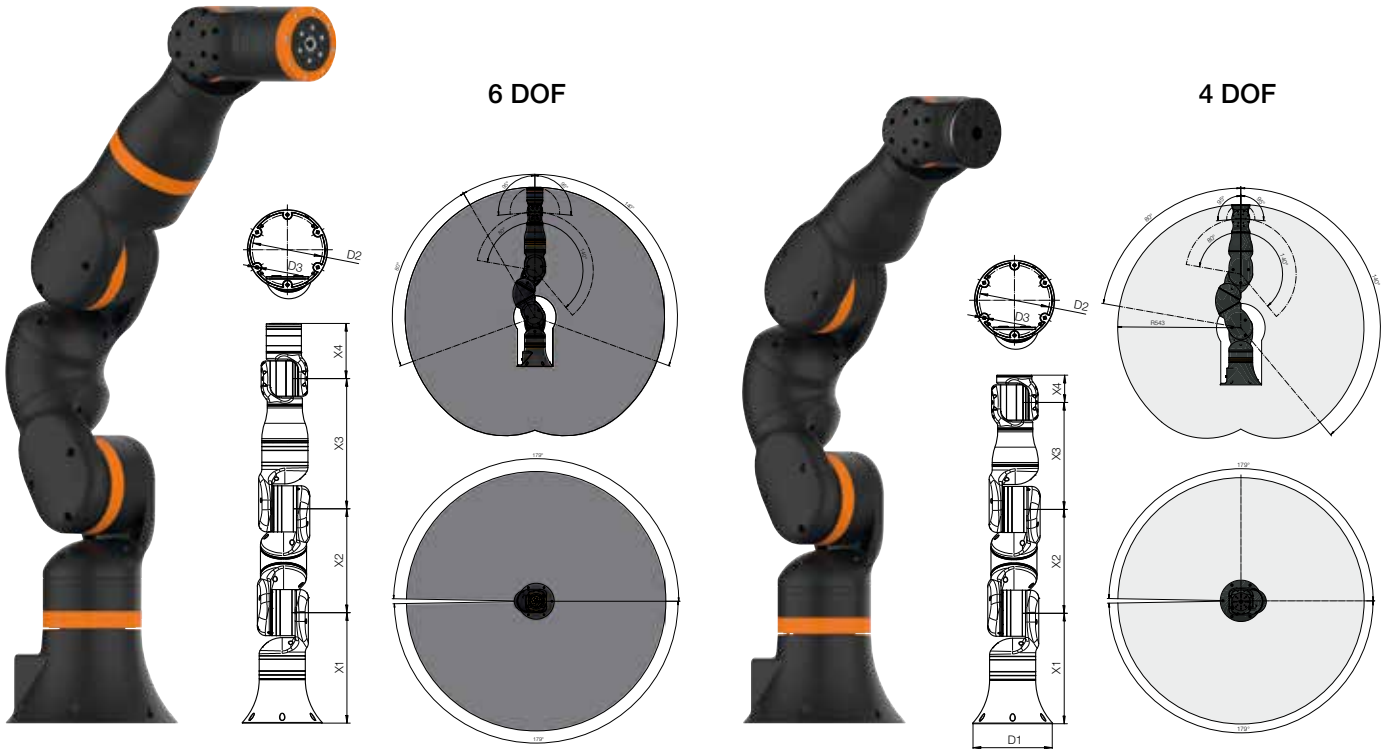



Robot arm for service robots



- Prepared for cobot function
- Plug-and-play and open-source variants available
- Assembling aid ► [Page 718](#)

 **Available in 4-6 weeks**

Technical data - ReBeL® robot arm

		6 DOF ¹⁶⁸⁾	4 DOF ¹⁶⁸⁾
Kinematics/type		Articulated arm robot	Articulated arm robot
Application area		Service robotics	Service robotics
Number of axes		6	4
Total reach	[mm]	664	495
Nominal reach	[mm]	400	400
Joint rotation for axes 1, 4 and 6	[°]	360	360
Angular speed	[°/s]	45	45
Final speed TCP (full load)	[mm/s]	200	200
Floor space	[mm]	180	180
Ambient temperature	[°C]	0-50	0-50
Dynamics with 500g load capacity	[Picks/min]	7	7
Payload incl. tool	[kg]	2	3
Repetition accuracy	[mm]	±1	±1
Weight	[kg]	< 8	< 7
Plug & play solution with iRC			
Part No.		REBEL-6DOF-00	REBEL-4DOF-00
Open source variant			
Part No.		REBEL-6DOF-OS	REBEL-4DOF-OS

Dimensions [mm]

Part No.	L1	X1	X2	X3	X4	a2	b2	D1	D2	D3	D4	D5	D6	D7
ReBeL-6DOF-00 New	660	252	237	297	126	80	138.6	180	160	6.5	43	M3	-	-
ReBeL-4DOF-00 New	543	252	237	244	62	80	138.6	180	160	6.5	43	M3	62	M4

¹⁶⁸⁾ DOF: degree of freedom

Fully integrated strain wave gears for cobots

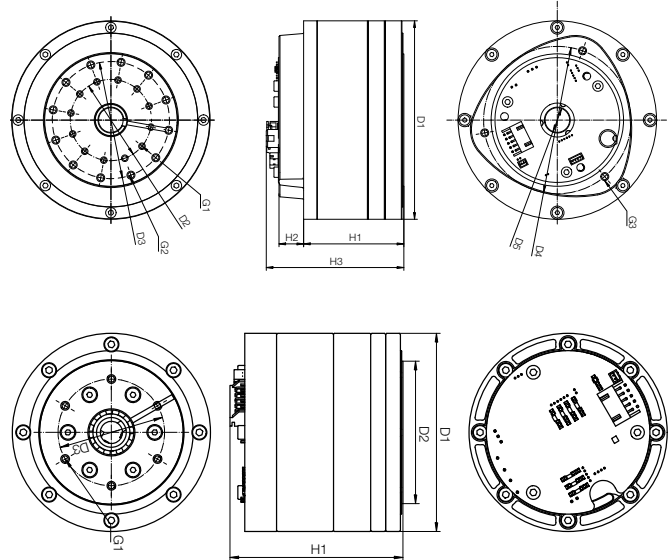


RL-SE-105-1-50-AL



RL-SE-80-1-50-AL

- 25% lighter than conventional strain wave gears thanks to igus® high-performance polymers
- Strain wave gear incl. power electronics, driver and encoder
- Minimum service life 1,000,000 cycles
- Direct connections of grippers to flange plate



Technical data

Part No.	Outer Ø [mm]	Height [mm]	Max. drive torque [Nm]	Rated torque [Nm]	Output speed [1/min]	Transmission	Weight [g]
RL-SE-80-1-50-AL New	80	60	2.5	2	6.0	50:1	330
RL-SE-105-1-50-AL New	105	62	20.5	10	6.0	50:1	900

Control data

Part No.	Nominal voltage		Nominal current [A]	Peak current [A]	Communication
	Logic [V]	Motor [V]			
RL-SE-80-1-50-AL New	5	24	3	9	CAN500k with CPR-CANV2 protocol
RL-SE-105-1-50-AL New	5	24	3	9	

Dimensions [mm]

Part No.	D1 Ø	D2 Ø	D3 Ø	D4 Ø	D5 Ø	D6 Ø	H1	H2	H3	G1	G2	G3
RL-SE-80-1-50-AL New	80	57.5	43	71	-	-	58.8	-	-	M3	M3	-
RL-SE-105-1-50-AL New	105	43.0	62	78	17	13	49.0	52	13	M3	M4	M3