

indy

EASY • SAFE • CONNECTED

Easy, safe, and always connected
A global leader in collaborative robots



Collaborative Robot

Our flagship collaborative robot that is easy, safe, and connectable from anywhere

INDY

Indy is Neuromeka's flagship collaborative robot model, featuring a smooth curved design and an innovative sensorless collision detection algorithm to ensure worker safety. It supports intuitive direct teaching via impedance control, and online/offline programming through a tablet-based teach pendant app.

Available in two payloads: Indy7 and Indy12. Gripper, vision sensors, and various standard tools can be added via wrist-mounted expansion ports.

Certification



Indy7-K
Indy7 / Indy7Pro
Indy12 / Indy12Pro



Indy7V3
Indy12V3



Indy7V3



Indy7V3 / Indy7Pro
Indy12V3 / Indy12Pro



Indy7V3
Indy12V3

Award



GOOD DESIGN
산업통상자원부 선정



reddot design award
winner 2018

Indy7 V3

DOF	6 (all revolute)
Payload	7 kg
Joint Motion Range	J1, J2, J4, J5, J6: ± 360 deg J3: ± 170 deg
Maximum Joint Speed	J1, J2, J3: 150 deg/s J4, J5, J6: 180 deg/s
Maximum Tool Speed	1 m/s
Reach(Maximum)	1210 mm
IP Rating	IP54
Workspace	800 mm
Repeatability	0.1 mm
Weight	34 kg

Indy12 V3

DOF	6 (all revolute)
Payload	12 kg
Joint Motion Range	J1, J2, J4, J5, J6: ± 360 deg J3: ± 170 deg
Maximum Joint Speed	J1, J2: 120 deg/s J3, J4, J5, J6: 150 deg/s
Maximum Tool Speed	1 m/s
Reach(Maximum)	1700 mm
IP Rating	IP54
Workspace	1200 mm
Repeatability	0.1 mm
Weight	57 kg



Indy7 Pro (with IndyEye)

DOF	6(all revolute)
Payload	7 kg
Joint Motion Range	J1, J2, J4, J5, J6: ± 360 deg J3: ± 170 deg
Maximum Joint Speed	J1, J2, J3: 150 deg/s J4, J5, J6: 180 deg/s
Maximum Tool Speed	1 m/s
Reach(Maximum)	1210 mm
IP Rating	IP54
Workspace	800 mm
Repeatability	0.1 mm
Weight	34 kg

Indy12 Pro (with IndyEye)

DOF	6(all revolute)
Payload	12 kg
Joint Motion Range	J1, J2, J4, J5, J6: ± 360 deg J3: ± 170 deg
Maximum Joint Speed	J1, J2: 120 deg/s J3, J4, J5, J6: 150 deg/s
Maximum Tool Speed	1 m/s
Reach(Maximum)	1700 mm
IP Rating	IP54
Workspace	1200 mm
Repeatability	0.1 mm
Weight	57 kg



Vision Solution

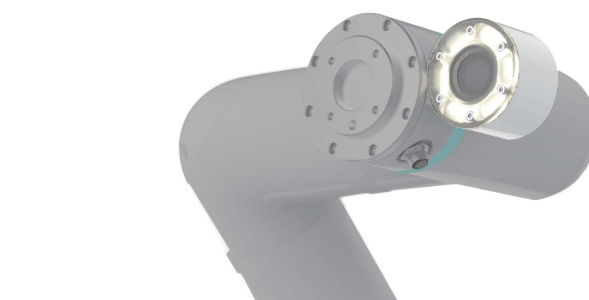
The optimal vision solution for collaborative robots, delivering the ideal balance of performance and affordability.

INDY EYE

IndyEye is an integrated robot vision solution included in the IndyPro model. It automatically calibrates and aligns the vision and robot coordinate systems without requiring additional setup. This allows precise position-based operations during robot motion, including conveyor tracking applications. IndyEye improves object detection accuracy even in challenging environments with irregular shapes or low lighting conditions, helping increase overall operational efficiency.

IndyEye

Sensor	IMX900 (Sony / Japan)
Sensor Type	CMOS, global shutter
Pixel Size	2.25 μm
Sensor Size	1/3.1 inch
Resolution	1600(H) $\times$ 1200(V)
Frame Rate	30 fps
Mono / Color	RGB Bayer
Data Interface	AHD to USB 3.0, Connector
Power Supply	USB3.0 power supply
Lens Resolution	5 MP, 2.2 μm (F/2.3), 6 MP, 2.1 μm (F/2.6)



ISP	NVS2675/ Nextchip(Korea)
Field of View	100°@ 6.2 mm image circle
Image Circle	8.0 mm as designed, 8.4 mm maximum
Distortion	-1 % TV @ 6.2 image circle