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neuromeka

Neuromeka Co.,Ltd.

Robot as a Tool, Robot as a Service, Robots for Every Workplace.

neuromeka

Neuromeka supports automation for small and medium-sized manufacturers using easy-to-use and economic cobots (collaborative robots). Neuromeka's cobots can cowork with people safely and be programmed easily to apply a variety of applications. Neuromeka is constructing ecosystem for RaaS (robot-as-a-service) platform business based on cobots which helps small and medium-sized companies to deploy and operate robot automation without in-house robot experts. We are to contribute our robot technology to improve every client's productivity.

H I S T O R Y

2013
02 founding Neuromeka at Namyangju (Gyunggi)
07 releasing NRMKFoundation SDK
10 releasing NRMKPlatform SDK

2014
01 Venture Company certification
01 installing R&D center
07 relocating HQ in Seongsu (Seoul)
09 releasing STEP/PC and STEP/BBB
10 releasing IGoT/HUB
12 releasing STEP/iMX and STEP/HPC

2015
07 releasing CONTY app
08 releasing IGoT/WSN

2016
05 attracting series-A investment
07 releasing STEP2
10 releasing Indy RP
11 establishing SCRC (Smart Connected Robot Center)

2017
02 INNOBIZ certification
03 releasing Indy3/5/10
04 relocating HQ in Apgujung (Seoul)
06 attracting series-B investment
06 relocating SCRC (Smart Connected Robot Center) in POSTECH, C5 (Pohang)
07 setting up Production BU in SCRC
09 releasing Indy7
12 Robot Company of The Year (in Industrial Robots)

2018
05 merging Autopower
06 establishing V-SCRC in HCMC (Vietnam)
06 establishing CILab (cobot intelligence laboratory) in POSTECH
07 starting System Engineering business
07 releasing D (Delta robot brand)
07 starting production of Indy7
08 attracting series-C investment
09 Red Dot Design Award (Indy7)
10 starting System Engineering BU (business unit)
10 relocating Production BU (business unit)
12 Robot Company of The Year (in Industrial Robots)
12 KDB NextRound Blue Frog Award
12 releasing STEP3
12 launching pilot business for IndyGo

2019
06 relocating HQ in Seongsu (Seoul)
09 releasing Indy12
09 releasing IndyEye
10 releasing IndyCARE
10 relocating to expand Branch Office in Daejeon
12 Robot Company of The Year (in Industrial Robots)
12 2019 Korea Regional Balance Award

2020
06 attracting bridge Investment
07 unicorn Startups selection (Ministry of SMEs and Startups)
07 IR52 Jang Young-shil Award
12 Indy7 New Product Certification (NEP)
12 2020 Robot Company of the Year (industrial robot sector) Award
12 establishing China B.O. in Yancheng

2021
05 Expansion of Daejeon branch (Jukdong, Daejeon, Korea)
06 excellent corporation R&D center (Ministry of Science and ICT)
08 attracting series-D investment
12 2021 Robot Company of the Year (industrial robot sector) Award
12 governmantal commendation, Minister of Trade, Industry and Energy (merit for industrial technology)
12 Certificate of the Innovative Product (Ministry of Trade, Industry and Energy)

2022
04 2022 Design Innovation Company by the Ministry of Trade, Industry and Energy

C O N T E N T S

Collaborative Robot

Your first industrial robot for small and medium sized manufacturers

Indy

'Indy' is Neuromeka's flagship cobot model we designed and manufactured. Guaranteeing workers' safety based on innovative collision detection algorithms, Indy supports more intuitive direct teaching by impedance control as well as online and offline programming with the teach pendant app running on android tablets. 'Indy' series consists of five models in terms of payload, e.g. 'Indy3/5/7/10 and 12' (3kg, 5kg, 7kg, 10kg and 12kg), and there is also 'Indy-RP2', 7 DOF model. Indy can be equipped with standard tools, such as grippers, vision sensors, etc., through standard extension port at its wrist link.

Spec	Indy7
DOF	6 (all revolute)
Payload	7kg
Joint Motion Range	1,2,3,4,5 : ±175deg | 6 : ±215deg
Maximum Joint Speed	1,2,3 : 150deg/s | 4,5,6 : 180deg/s
Maximum Tool Speed	1m/s
Maximum Reach	1.3m
Maximum Workspace w/Full Payload	0.8m
Repeatability	100μm
Weight	28kg

Spec	Indy7 Pro (with IndyEye)
DOF	6 (all revolute)
Payload	7kg
Joint Motion Range	±360deg for all joints
Maximum Joint Speed	1,2,3,4 : 150deg/s | 5,6 : 180deg/s
Maximum Tool Speed	1m/s
Maximum Reach	1.3m
Maximum Workspace w/Full Payload	0.8m
Repeatability	50μm
Weight	28kg

Spec	Indy12
DOF	6 (all revolute)
Payload	12kg
Joint Motion Range	±360deg for all joints
Maximum Joint Speed	1,2 : 120deg/s | 3,4,5,6 : 150deg/s
Maximum Tool Speed	1m/s
Maximum Reach	1.8m
Maximum Workspace w/Full Payload	1.2m
Repeatability	100μm
Weight	55kg

Spec	Indy-RP2 (Controlled by STEP3)
DOF	7 (all revolute)
Payload	5kg
Joint Motion Range	±175deg for all joints
Maximum Joint Speed	1,2,3,4 : 150deg/s | 5,6,7 : 180deg/s
Maximum Tool Speed	1m/s
Maximum Reach	1.3m
Maximum Workspace w/Full Payload	0.8m
Repeatability	100μm
Weight	30.5kg

Spec	IndyCB
Controller	STEP2
Interfaces	EtherCAT, EtherNet, USB, CAN, RS232, RS485
I/O	DI/O 32ch, AI/O 4ch
Control Box Size	420 x 360 x 222 mm
Power	max. 700w (avg. ~350w)
Weight	~ 15.5kg
Supply Voltage	100~240 Vac, 50~60hz

O B S O L E T E

Spec	Indy3	Indy5	Indy10
DOF	6 (all revolute)	6 (all revolute)	6 (all revolute)
Payload	3kg	5kg	10kg
Joint Motion Range	±175deg for all joints	±175deg for all joints	±175deg for all joints
Maximum Joint Speed	90deg/s	90deg/s	1,2 : 60deg/s | 3,4,5,6 : 90deg/s
Maximum Tool Speed	1m/s	1m/s	1m/s
Maximum Reach	1.0m	1.2m	1.5m
Maximum Workspace w/Full Payload	0.6m	0.8m	1.0m
Repeatability	100μm	100μm	100μm
Weight	17kg	25kg	40kg

Co-Industrial Robot

a high-performance industrial robot with cobot's safety and ease

ICoN

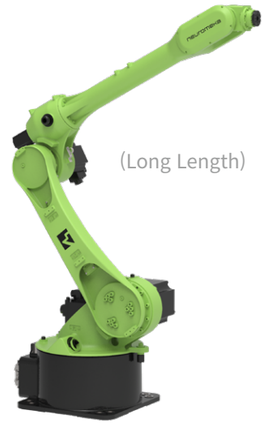
'ICoN' is a next-generation co-industrial robot with the safety and ease-of-use features of the Neuromeka collaborative robot 'Indy'. By adding an advanced collision detection algorithms, status indicators, and peripheral safety devices such as laser scanners, safety that was not found in existing industrial robots has been greatly improved. Direct teaching by impedance control, tablet-based teach pendant app 'CONTY', and force sensor-based Lead-Through devices enable easy programming. 'ICoN' provides high productivity by providing 2.3 times the speed and high repeatability compared to cobots, up to IP67 waterproof and dustproof rating, and 4 pneumatic lines. total 7 models are provided according to the payload and reach.

Spec	ICoN3
Maximum Reach	560mm
Payload	3kg
Weight	23kg
Ingress Protection	IP65
Repeatability	±30μm
DOF	6 (all revolute)
Joint Motion Range	1: ±170deg | 2: -110/+120deg | 3: -110/+155deg 4: ±200deg | 5: ±120deg | 6: ±350deg
Maximum Joint Speed	1: 450deg/s | 2: 450deg/s | 3: 525deg/s 4: 600deg/s | 5: 600deg/s | 6: 800deg/s

Spec	ICoN7
Maximum Reach	710mm
Payload	7kg
Weight	49kg
Ingress Protection	IP65
Repeatability	±30μm
DOF	6 (all revolute)
Joint Motion Range	1: ±170deg | 2: -100/+135deg | 3: -120/+156deg 4: ±200deg | 5: ±135deg | 6: ±360deg
Maximum Joint Speed	1: 380deg/s | 2: 350deg/s | 3: 480deg/s 4: 490deg/s | 5: 565deg/s | 6: 815deg/s

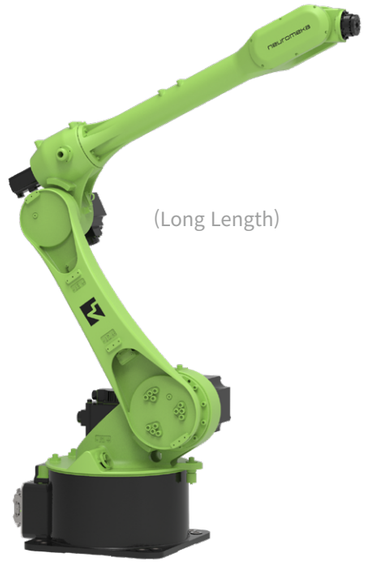
Spec	ICoN7L
Maximum Reach	920mm
Payload	7kg
Weight	53kg
Ingress Protection	**IP67**
Repeatability	±30μm
DOF	6 (all revolute)
Joint Motion Range	1: ±170deg | 2: -100/+135deg | 3: -120/+156deg 4: ±200deg | 5: ±135deg | 6: ±360deg
Maximum Joint Speed	1: 380deg/s | 2: 320deg/s | 3: 390deg/s 4: 490deg/s | 5: 565deg/s | 6: 815deg/s

(Long Length)



(Long Length)

Spec	ICoN10	ICoN12L
Maximum Reach	1420mm	2001mm
Payload	10kg	12kg
Weight	180kg	300kg
Ingress Protection	wrist IP67	wrist IP67
Repeatability	±30μm	±60μm
DOF	6 (all revolute)	6 (all revolute)
Joint Motion Range	1: ±170deg | 2: -85/+150deg | 3: -95/+170deg 4: ±195deg | 5: ±135deg | 6: ±360deg	1: ±170deg | 2: -95/+155deg | 3: -95/+170deg 4: ±185deg | 5: ±135deg | 6: ±400deg
Maximum Joint Speed	1: 200deg/s | 2: 200deg/s | 3: 200deg/s 4: 370deg/s | 5: 370deg/s | 6: 600deg/s	1: 175deg/s | 2: 175deg/s | 3: 170deg/s 4: 355deg/s | 5: 355deg/s | 6: 300deg/s



(Long Length)

Spec	ICoN20	ICoN20L
Maximum Reach	1702mm	2001mm
Payload	20kg	20kg
Weight	270kg	280kg
Ingress Protection	wrist IP67	wrist IP67
Repeatability	±60μm	±60μm
DOF	6 (all revolute)	6 (all revolute)
Joint Motion Range	1: ±170deg | 2: -85/+150deg | 3: -95/+170deg 4: ±180deg | 5: ±135deg | 6: ±400deg	1: ±170deg | 2: -85/+150deg | 3: -95/+170deg 4: ±180deg | 5: ±135deg | 6: ±400deg
Maximum Joint Speed	1: 175deg/s | 2: 175deg/s | 3: 170deg/s 4: 360deg/s | 5: 360deg/s | 6: 600deg/s	1: 175deg/s | 2: 175deg/s | 3: 170deg/s 4: 360deg/s | 5: 360deg/s | 6: 600deg/s

Autonomous Mobile Robot

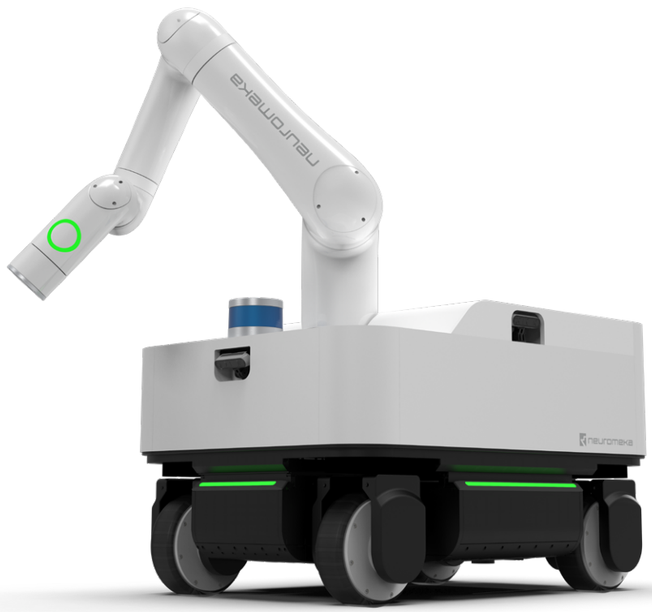
versatile autonomous mobile robot with collaborative robot

Moby

‘Moby’ is Neuromeka’s autonomous mobile robot platform for ‘Indy’. ‘Moby’ makes ‘Indy’ has non-restriction workspace. ‘Moby’ can be equipped with various sensors by changing the sensor plate. Moby can be used for delivery, patrol, quarantine, and guidance by replacing workpallets.

Since the four steering wheel modules (2DOF) minimize the deviation of the driving force, the straight-line controllability and the omnidirectional driving direction controllability are excellent.

Spec	Moby
Speed	0.01m/s ~ 1.7m/s
Size	0.91m(L) x 0.66m(W) x 0.85m(Maximum1.8m)
Manipulator	Indy7 (6DOF, Payload 7kg)
Total Weight	170kg
Payload	200kg (approx.)
Power	battery 24V 50AH x 2EA
OS	Ubuntu 18.04, ROS Melodic
Charging Time	5 hours (built-in 20A Charger)
Operating Time	10 hours (Max)



Delta Robot

Pride of Korean delta robots for high-speed automation

D

Neuromeka’s ‘D’ is the world-class high-speed high-precision four-axes delta robot based on custom vibration suppression design. In terms of payload capacity and workspace radius two standard models are under production: ‘D3’ (with 3kg payload) and ‘D6’ (with 6kg payload). Neuromeka’s delta robots provides total automation solutions with custom grippers, conveyor belts, and vision sensors integrated with PLCs in order to satisfy clients’ requirement for line automation.

GOOD DESIGN 산업통상자원부선정

Spec		D3		
Weight		60kg		
Payload		3kg		
DOF		4axis		
Reachable Area	XY Axis	800mm		
	XY Axis	300mm		
	Roll Axis	±180 deg		
Repeatability		±0.1mm		
Actuator		AC servo motor, absolute encoder		
Cycle Time		Path	Payload	Cycle
		25 x 305 x 25	0kg	0.30s
			1kg	0.45s
			2kg	0.51s
			3kg	0.55s

Spec		D6		
Weight		80kg		
Payload		6kg		
DOF		4axis		
Reachable Area	XY Axis	1300mm		
	XY Axis	500mm		
	Roll Axis	±180 deg		
Repeatability		±0.1mm		
Actuator		AC servo motor, absolute encoder		
Cycle Time		Path	Payload	Cycle
		25 x 305 x 25	0kg	0.30s
			1kg	0.36s
			2kg	0.37s
			3kg	0.39s
			4kg	0.41s
			5kg	0.43s
			6kg	0.45s

Vision Solution

Reasonable price and reliable performance

IndyEye

Deep learning based, high-performance vision solution IndyEye offers affordable solutions through low-cost vision sensor and deep learning server sharing.

Unlike former vision sensors that require demanding working conditions, IndyEye can be applied flexibly to any working environment without large space or bright lights, and deep learning server sharing can store working objects data to respond to customer requests. In small and medium-sized manufacturer that require variants of manufacturing lines frequently, IndyEye enables a variety of tasks and quick application.

Spec	IndyEye
Size	67mm x 67mm x 74.4mm
Processing Time	250~1500ms/img
Field of View (H/V/D)	86° ±5° / 70° ±5° / 100° ±5°
Interface	USB 2.0
Working distance	5cm-70cm

Smart Actuator

Integrated module for your own cobot

CORE

Neuromeka's smart actuators 'CORE' are joint driving modules with frameless motor, harmonic drive, magnetic brake, multi-turn absolute encoder, EtherCAT slave board, and motor driver integrated through a common hollow axis structure. Hollow axis design enables aesthetic robot design for motor power lines and EtherCAT control lines go through the hole.

'CORE' series (adopted to Indy lineup) consists of four models in terms of rated power, e.g. 'CORE100/200/500 and 1000' (100W, 200W, 500W, and 1300W, respectively). Every 'CORE' module supports torque command update up to 8kHz, and users can implement customized servo algorithm at the user application level. As 'CORE' modules are provided without outer frame by default, it helps to design users' custom robot.

Spec	CORE100	CORE200	CORE500	CORE1000
Rated Power	100W	200W	500W	1130W
Rated Voltage	48V	48V	48V	48V
Maximum Continuous Current	3.8A	4.8A	11.7A	22.6A
Rated Output Torque	21Nm	50Nm	121Nm	515Nm
Rated Output Speed	180deg/s	150deg/s	150deg/s	120deg/s
Size	∅80 x 135mm	∅90 x 145mm	∅142 x 155mm	∅178 x 195mm
Weight	1.45kg	1.84kg	4.87kg	9.1kg

Robot Controller

Realtime embedded EtherCAT master robot controller

STEP

‘STEP’ comes with NRMKPlatform SDK, a software framework for development of realtime control applications on Linux/Xenomai environment which is the hard realtime OS. Development environment running on MS Windows® is also provided in order for engineers unfamiliar with Linux environment to develop embedded control applications.

‘STEP’ is integrated with EtherLab, which has been proven open-source EtherCAT master stack for many systems, for multi-axes synchronized high-speed realtime distributed control. Development of standard EtherCAT based realtime cotrol applications is supported by CoE (CANopen-over-EtherCAT) protocol based programming interface. Software tools are provided for automatic generation of basic CoE based application codes. Legacy devices with RS485 or CAN interfaces can be connected for standard ports. In order to facilitate CAN based applications NRMKPlatform SDK has RT CAN and CanFestival (open-source CANOpen framework software) installed.

‘STEP2’ is the default controller responsible for realtime control of Indy lineup, and runs 4kHz model-based impedance control algorithms. ‘STEP3’, a performance model intended for advanced research and development, is integrated with a high-performance GPU card and NIVIDIA TensorRT library which facilitates development of a variety of algorithms based on high-speed deep learning inference computation.

Spec	STEP2	STEP3
Platform	Fanless Braswell Industrial PC	Skylake Industrial PC
CPU	Intel Celeron Braswell soc (4X, 1.6GHz)	Intel Skylake i7-6700K (3.4GHz)
RAM	4GDDR3	8GDDR4
Storage	128G SSD(SATA3)	128G SSD
Ethernet	1port	1port
EtherCAT	1port	1port
GPIO	16pin	N/A
RS485/422	1port	1port
RS232	2port	1port
CAN	1port	N/A
Dim	204 x 185 x 52	350 x 265 x 182
Optional	-	Geforce GTX 1080 Ti

Robot Software

Control Engine for Cobots

IndyFramework

‘IndyFramework 2.0’ is the Neuromeka’s proprietary software framework developed for efficient development of effective cobot applications. Operating on robot controller ‘STEP’ environment, it is capable of controlling a robot at maximum 8kHz (in case of STEP3 controller). Thanks to general-purpose robust control algorithm library for articulated robots coping with kinematic singularity and model uncertainties as well as innovative collision detection algorithm a variety of robotic tasks can be implemented safely and stably. Furthermore, its software architecture is designed to accommodate extension for more features because a number of system functions necessary for automation system deployment and remote connected maintenance are included.

Function	Features
High-speed control on hard RT OS	Native EtherCAT master running on realtime OS Xenomai optimized for ‘STEP’ Robot control frequency of maximum 8kHz (4kHz for ‘STEP2’)
General-purpose articulated robot control library	Efficient kinematics and dynamics algorithm for a variety of robot structures Nonlinear H-infinity optimal control based robust control algorithm Stable task control capability near kinematic singularities Impedance control algorithm in three-dimensional space A variety of path planning algorithms and trajectory interpolation algorithms in joint and task space
Safety and convenience by operation without fences	Collision detection based ‘power and force limiting’ feature Realtime monitoring and limitation of joint velocities and currents Online programming for joint and frame moves by ‘CONTY’ (Android teach pendant app) Direct teaching for joint move programming by physically moving robot joints Impedance teaching for frame move programming by physically moving the robot end-effector in selected translation and/or orientation directions
System utiity functions to facilitate automation system implementation	Standard tool modules such as electrical grippers, electro-magnetic grippers, vacuum suction tools, automatic bolt runners Fully isolated DIO (each 16 channels) and high-performance AIO (each 2 channels) Independent EtherCAT port for interface of external slaves (via internal EtherCAT hub) TCP/IP, Modbus, and OPC-UA for interfacing external PLCs and/or controllers (SDK programming may be necessary) Standard IoT protocols such as MQTT
Smart Connected Maintenance	Remote online SW update (‘CONTY’ app, realtime robot control runtime, and motor driver firmware) Log file transfer for remote diagnosis for system malfunction Webcam based operation black-box feature for remote site monitoring
Extendable robot SW architecture	Plugin structure for control logic extension Python-based robot motion script programming SDK for extension of robot functionalities and algorithms

Teach Pendant

Everyone's teach pendant for cobot programming

CONTY

'CONTY' is the teach pendant app (running on Android OS) developed independently to program every cobot of Neuromeka. As such it runs on every standard android tablet. Communicating with the robot controller 'STEP' in wired or wireless manner, it supports online and offline programming of Indy lineup as well as direct teaching. Thanks to abundant features designed intuitively anyone can program Neuromeka's cobot.

*Available with exclusive tablet for 'CONTY'

Spec	CONTY
CPU	Media Tek Deca-Core MT6797T (10-core)
Display	10.1inch / 2560 x 1600 (WQXGA)
OS	Android
Memory / Storage	4GB / 64GB eMMC
Battery	8000mAh
Network	Wi-Fi 2.4GHz / 5GHz (IEEE 802.11 ac/a/b/g/n) / GPS
Size / Weight	239mm x 166.9mm x 7.5mm / 550g
Camera	1,300 megapixel (Front, Rear)
Components	Tablet, Charger, Cable, Cover case

Standard Tools

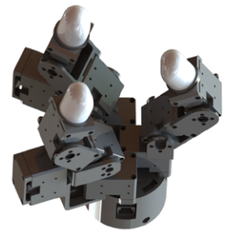
Robot as a Tool

IndyTools

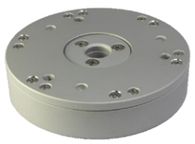
Neuromeka offers a variety of tools that are required for cobots at an economical price. By collaborating with tool manufacturers used in industrial robots, we provide optimum tools that cobot users need. Gripper for easy transportation of heavy objects during work, low-cost 6-axis F/T sensor that can measure robot's dynamical load robot, movable bass for, and more.

Spec	Gripper (MPLM 1630)
Gripping Force	63N
Stroke	2 x 15mm
Jw Closing Time	0.37s
Power Supply	24Vdc
Nominal Current	0.3
Weight	263g
Feature	Optimized electric gripper for collaborative robots

Spec	Gripper (IndyHand)
Finger	Fully acuated robot hand(3-finger)
Weight	1.7kg
DOF	11
Algorithm	Advandced blind grasping algorithm
Control	Torque control
Actuator	DYNAMIXEL (ROBOTIS)
Feature	Flexible grip with three fingers and eleven DOF



Spec	Torque Sensor (RFT76-HA01)
Dimension	∅76 x 18.5mm
Weight	200g
Data Rate	max 1,000Hz
Load Capacity	300N, 8Nm(torque)
Resolution	200mN, 8mNm(torque)
Feature	Capacitance type, 6 axis force with low price



Spec	BASE (Mobile Base)
Weight	About 50kg
Height	420mm, 685mm
Feature	Axial folding mobile base

Robot Platform Business

Robot as a Service

IndyGo

'IndyGO', which is the compound word of 'Indy' (Neuromeka's cobot) and 'go' (meaning 'go to clients sites'), stands for the total solution service providing deployment, operation as well as maintenance of cobots for clients. 'IndyGO' provides service covering the whole process of cobot deployment of analysis-design-installation-operation-maintenance necessary. To this end a service platform adopting 'Lean Robotics' methodology is utilized to facilitate automatic diagnosis and analysis of target manual cells. It also provides smart factory feature using industrial IoT and smart connected maintenance.

Customized and integrated 'IndyGO' services through thorough analysis of production process provide a most efficient robot layout and operation plan in production line. This enables cost reduction as well as productivity maximization, and can be applied actively to dynamically changing manufacturing processes. 'IndyGO' is specializing in small and medium sized manufacturing companies is provided with leasing and monthly subscription model to minimize the initial investment cost, thereby lowering the barrier to constructing robot automation production line. Robot purchasing, system integration, maintenance and related personnel training can be solved through 'IndyGO' service, and cobot-centered automation can be operated at a reasonable cost, which in turn guarantees quick and high return on investment.

'IndyPD' is an on-site cobot specialist for the introduction, maintenance and training of cooperative robot cells.

'IndyPD', which will be dispatched to the field (initially from Neuromeka), provides the most efficient robot layout and operation plan for the production process, and communicates directly with workers to provide an immediate solution to a production process that needs to be changed. In addition, 'IndyPD' also serves as a mentor to train some of the client's employees as 'IndyPD'. He/she educates field staff on how to use cobots, and to solve problems in the field, and helps anyone new to cobots become a competent and skilled cobot specialist. In the future, customers can drive their own automation using in-house 'IndyPD's at a lower cost and can also make 'IndyGO' business by themselves to neighbor partners.

Full day dispatch schedule

Introduction Phase
(initial six months)
twice a week

→

Settlement Phase
(next six months)
once a week

→

Operation Phase
(next one year)
once per two weeks

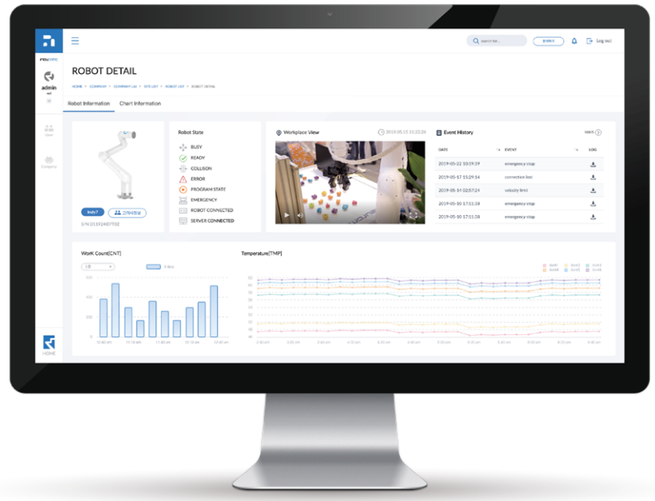
Remote Management Service

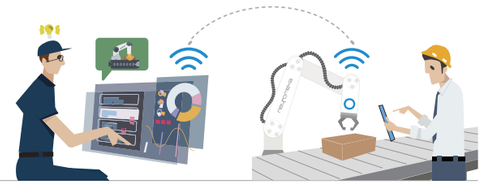
remote management of robots for smart factory

IndyCARE

'IndyCARE' is a web service created for remote management of cobots. If you have an Internet connection, you can access the cobot's real-time status, operating data, and event logs anytime, anywhere. The operating data has three additional input channels that can be customized to fulfill the user's needs, in addition to Cobot's work counts and the temperature of each joint. We also provide video streaming services of the worksite through the accompanying web camera with cobot.

'IndyCARE' stores event log files and streaming videos for all collision detection and emergency stop situations during work to help determine the causes of robot administrators and enable engineers to provide remote CS support.





Function	Features
Real-time monitoring of cobots	Check whether or not operations are started Remote management with collision and emergency stop situation monitoring (email alarm function in case of an abnormal situation)
Store work date	Measure the productivity by collecting data on the work count by the Cobots Temperature measurement of each joint monitoring for abnormal conditions Customizing of data values
Video streaming of worksite	Real-time transmission of the work site situation to the robot administrator with the camera connected to the 'IndyCARE' Visually check the status of cobot without visit each worksite
Collecting event log	Collect log files for changes in Cobot status (collision, emergency stop, etc.) Subsequent monitoring of missed situations by robot administrators Fast analysis of robot anomalies to reduce maintenance time and cost

Robot as a Tool
Robot as a Service
Robots for Every Workplace

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