

1. Unternehmer-Treff

2025



Designed and Engineered in Germany

NEURA
ELECTRONICS

NEURA

ELECTRONICS

Bödingen 

 More than 130
employees

Innovation and experience

Neura Electronics GmbH is a medium-sized business based in Bödingen

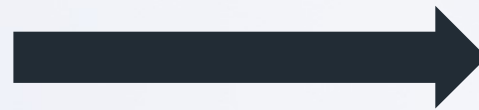
It has been formed by taking over all assets and employees of the prior BAH Industrial Solutions

We specialize in control cabinet construction and quality control at the highest standards and with experience since 2012

We are continuously developing our services and automation technology to always offer our customers the greatest possible added value.

BAH Industrial Solutions became NEURA Electronics

NEURA
ROBOTICS



NEURA
ELECTRONICS

BAH Industrial Solutions became NEURA Electronics

NEURA
ROBOTICS

Proven experience in

- Control Cabinet building
- Quality control

All relevant assets and
employees transferred

Automation and
optimization expertise

- Increased quality
- Reduced costs



NEURA
ELECTRONICS

*Combining **BAH's** expertise with **NEURA's** automation
innovation to deliver even **better results** for you!*

BAH Industrial Solutions became NEURA Electronics

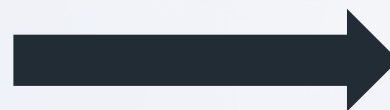
We want to continue all existing business without interruption!

NEURA
ROBOTICS


Additional Customer
Relations


All Existing Customer
Relations


INDUSTRIAL SOLUTIONS



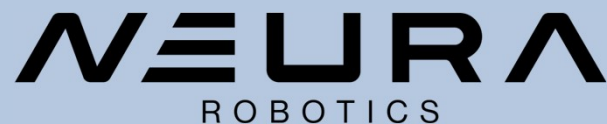
NEURA
ELECTRONICS

*Combining **BAH's** expertise with **NEURA's** automation innovation to deliver even **better results** for you!*

Leadership team



Jens Fabrowsky
Managing Director



David Reger
Managing Director



**Jens
Arnold**

Managing Director



**Jens
Göhring**

Head of
Operations



**Tina
Göhring**

Head of
Finance



**Uwe
Sakautzky**

Head of Partner
Management

Business Units

A comprehensive portfolio combining technology, innovation and precision



Control cabinet construction

Individual and efficient control cabinet solutions for your project



Quality control

100% control and random sampling guarantee the fulfilment of your requirements



Component assembly

Professional assembly from simple to complex mechanical and electrical components



Automation Engineering

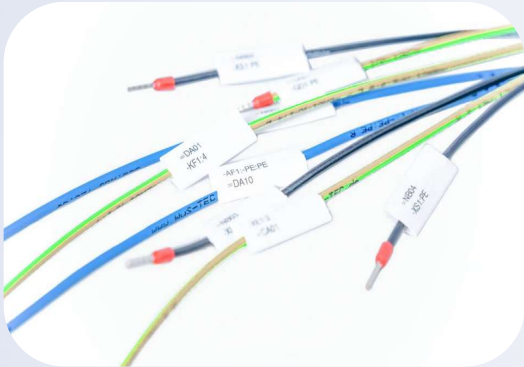
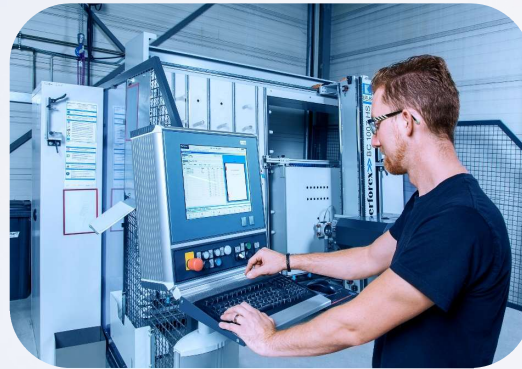
Development, design, programming and commissioning of machines and robots

Some of our customers...



Control cabinet construction

Experienced designers, dynamic projects: Your Success, Our Know-How



- Planning of complex automation, assembly and plant projects with Eplan P8, creation of digital twins with Eplan Pro Panel
- Our ability to design, build and label to UL standards allows us to meet the highest quality standards and international recognition
- 100% inspection of each manufactured control cabinet, in the case of series cabinets by means of an automated test system
- We have had a certified production system since 2012, now in accordance with DIN ISO 9001:2015

Control cabinet construction

From planning to commissioning – your partner for comprehensive solutions

Our Services range from electrical planning (Eplan, including Eplan ProPanel 3D Structure) to PLC Programming / Robot programming and final commissioning of the system at the end customer's site



Planning

Electrical planning with Eplan, incl. Eplan ProPanel 3D structure (digital twin)



Supply chain

Procurement of parts and materials



Construction

Industrial control cabinet construction according to customer requirements



Final inspection

Final inspection of the manufactured control cabinets



Final assembly

Plant wiring and system cabling at the end customer



Commissioning

PLC programming and commissioning of the system at the end customer's site

Digital manufacturing

From planning to final assembly



- All systems are centrally guided by a digital control system, which leads to better production planning, processes and production control
- Manufacturing can be supported by work instructions, videos and many other topics



- The system is controlled directly via EPLAN. This means that individual cabinets can also be assembled and manufactured using the assistance system
- Support through visual instructions

Visual quality control

Ensuring the highest quality standards



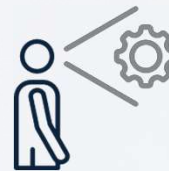
Microscope and camera controls

Use of state-of-the-art optical systems for precise quality inspections.



Automated control and measurement

Advanced camera and glass rotary table systems for seamless quality control.



Gauge Exams

Accurate measurements to ensure compliance with specific dimensions and tolerances.



Visual inspection of surfaces

Careful inspection of painted, polished, stamped and formed components.

Component assembly

Mechanical and electrical assembly of machines and systems

- Assembly of complex mechanical assemblies according to technical drawings
 - Assembly of electrical assemblies
 - Mounting plates
 - Control units and terminal boxes
 - Cleaning baskets, components for industrial dishwashers
 - Fastening materials for solar systems
 - Installation of hot and cold water hoses
- Procurement and storage of basic components
 - Order-specific cutting to length on a semi-automated system
 - Pressing of the fittings incl. checking of the pressing force based on geometric parameters
 - Applying the date of manufacture by means of an embossing device
 - Sorting, packing and shipping goods according to customer instructions
 - Repacking, splitting into PU
 - Cutting cables to length and welding
 - Converting parts into blisters





NEURA

ROBOTICS

Company introduction

Who is NEURA?



220M€

Recent funding round



4 out of 10

Biggest robotics companies
whitelabel our products



1.000+

Employees



1+ bn

Signed orderbook



Located, designed &
engineered in
Germany



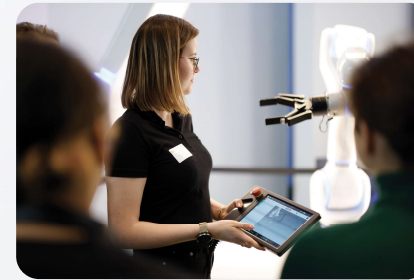
Patented and
pioneering
technologies



Award-winning
company and
products



Inhouse development of
Platform, Software, AI and
Hardware



NEURA
ELECTRONICS

Product Overview

NEURA's product portfolio



AI Needs a **Body** – or several

At NEURA, we develop most key components in-house
– this allows us to build a broad portfolio of cognitive robots



Cognitive enablement



6 DoF Force
Torque Sensor



Vision
Function



Encoder



Electric
Motor



Sensitive Skin



Voice
Function



Tech
Pendant



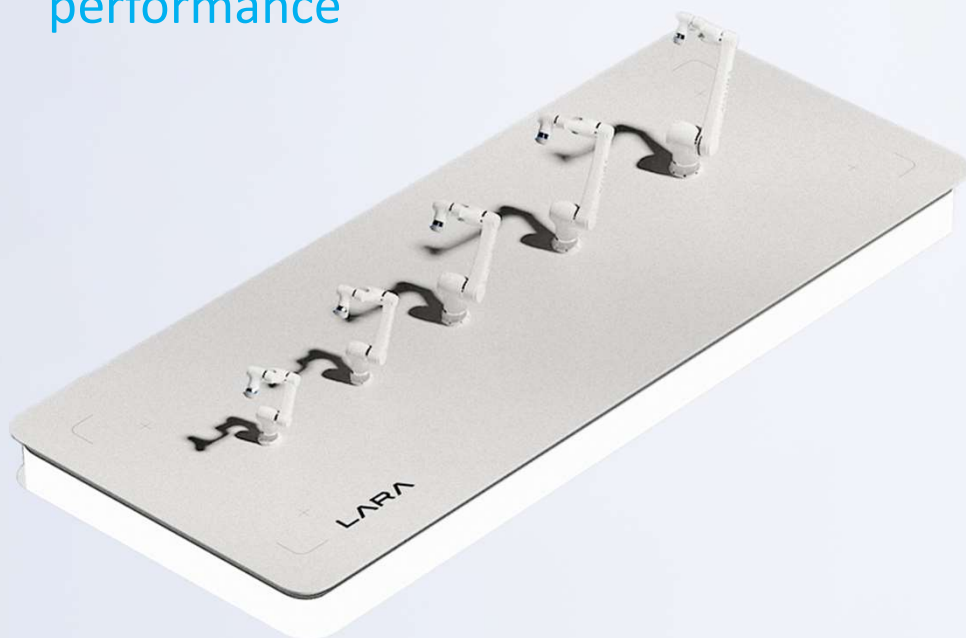
NEURON OS



Safe Human
Detection Sensor

LARA

The Cobot which combining the agility of lightweight design with industrial performance



Ready to be
used for your
application
right away.

Protection

IP66



Payload (kg)

3-30

Safety

Cobot

Based on the
Neuraverse.
platform

Reach (mm)
590-1800

Movement
Capabilities

6 DoF

Feel of Touch

FTS

Speed (°/s)

200

Operating
time (h)

24/7

Repeatability
(mm)

0.006

Meet LARA

LARA Industry Use Cases

Surface Grinding / Polishing

For different material & shapes with high sensitive force torque sensor



Packaging and Palletizing

Fast and Automated packaging and palletizing



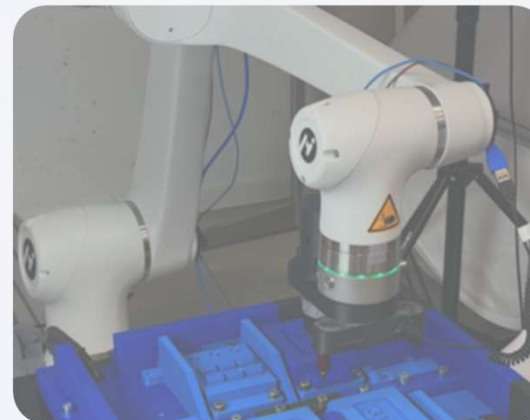
Welding Operations

Easy to use welding assistance.



Precision (Dis-)assembly

High precision assembly within electrical components



Meet LARA

LARA General Use Cases

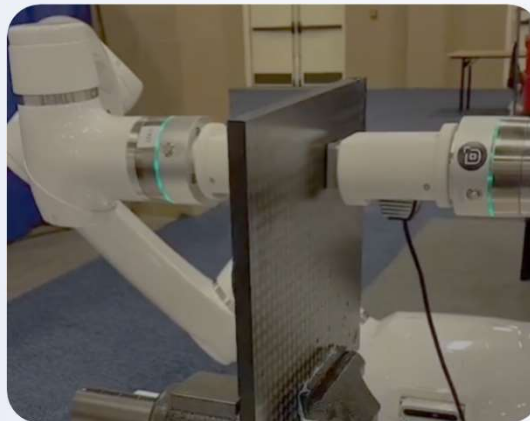
Multi-Arm Manipulation

Automated collision avoidance for fast completion of tasks



Inspection Capabilities

Contactless high-resolution scanning to detect defects



Charging Infrastructure

Possibility to advance the capabilities of



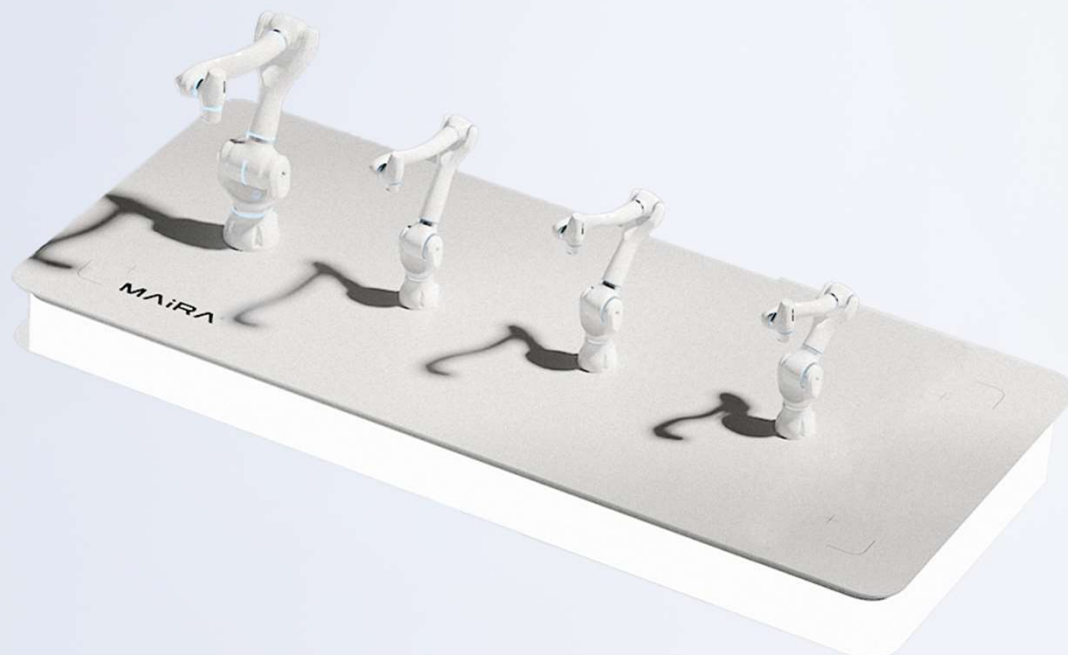
Education & Research

High precision assembly within electrical components



MAiRA®

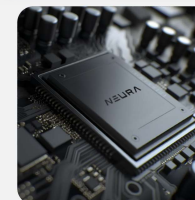
The world's first cognitive robot !



3D
Vision
Sensor



Language model
Computer Vision
Reinforcement Learning



Payload (kg)
**12-
35**

The smartest
cobot on the
market

Based on the
Neuraverse.
platform

Reach (mm)
1100-1600

Movement
Capabilities
6-7 DoF

The most
accurate cobot
on the market

Everyone can
program
MAiRA, no
coding skills
needed.

Protection
IP65

Repeatability
(mm)
0.006

Meet MAiRA

MAiRA Industry Use Cases

Smart Bin Picking

Gripping of complex product shapes and Reorientation of the product



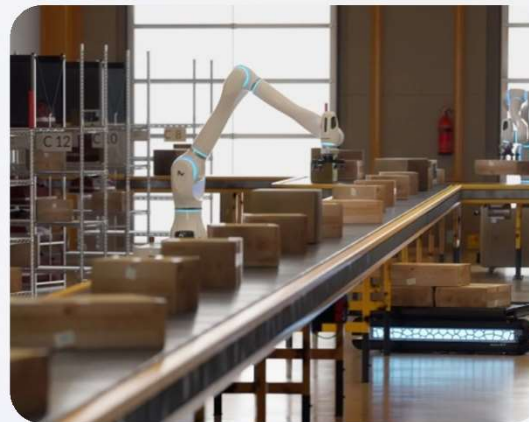
Assembly

Assembling of different vehicle parts in a production line



Palletizing

Smart palletizing of different sizes of containers



Testing / Quality inspection

Multi-arm test possibilities with high path accuracy



Meet MAiRA

MAiRA Healthcare / Service Use Cases

Robot-Assisted Surgery

Handing over surgical instruments



Rehabilitation

Human friendly Mobilization
Support for Patients



Services related to well-being

Human-centered interaction
(e.g. Full body massage)



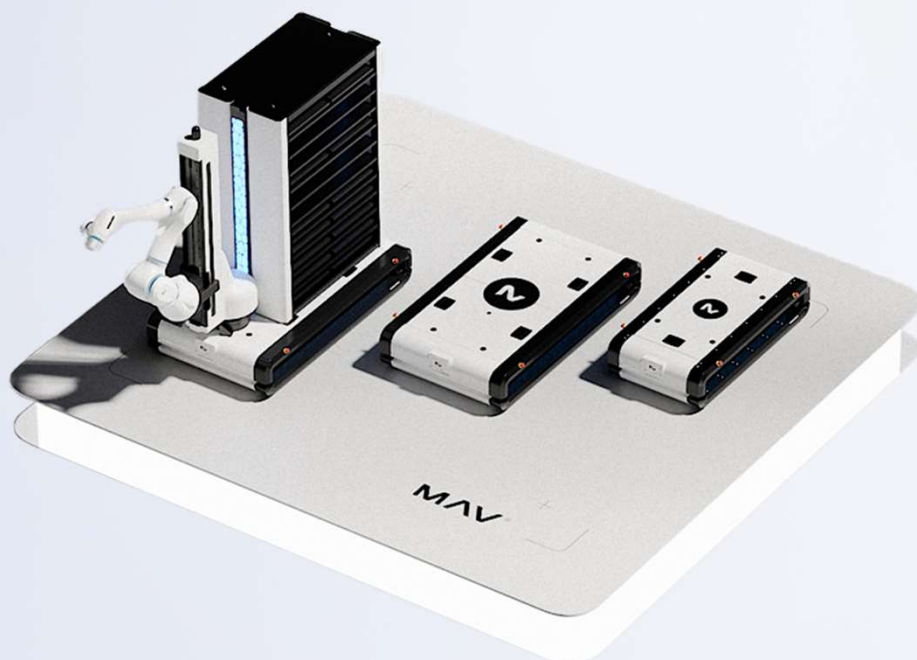
Shelf Management

High precision assembly
within electrical components



MAV[®]

Our flexible autonomous unit – if needed as a mobile manipulator!



Revolutionizes
Intralogistics



Payload (kg)
**500 -
1500**

Touchless
Safe
Obstacle
Detection

Based on the
Neuraverse.
platform

Speed Up to
**1.5
m/s**

Weight (kg)
**300-
400**

MAV+
Combined with
a collaborative
robot enables
full automation

Fleet-
management

Protection
IP54

Position
accuracy (mm)
5

Meet MAV

MAV General Use Cases

Intralogistic

Autonomous Transportation in
Fleets



Material Transport

Product Transportation of
different material & shapes



Airport

Luggage Transport which is
auton. following the
passenger



Retail

Auton. Shelf Supply Support for
In-Store Stocking Process



Meet MAV+

MAV+ General Use Cases

Laboratory

Auton. transport of medicine and laboratory samples



Assembly

Autonomous Material supply for production lines



Food & Beverage

Flexible conveyor belt feeding



Intralogistics

Mobile Machine Tending and component transportation



Meet MAV+

MAV+ General Use Cases

Construction

Sanding, plastering and painting in construction industry



Agriculture

Even distribution of fertilizer across the field



Shopping

Auton. Provision of items of Shopping of the future (e.g. Click & Collect)



Aviation

Mobile maintenance and servicing of aircraft



MiPA

My intelligent Personal Assistant



Platform
Approach
From
Professional to
Private Use



Language model
Computer Vision
Reinforcement Learning



Perception

360°

Fully
autonomous
operation with
obstacle
avoidance

Based on the
Neuraverse.
platform

Motion
Endurance
4-8 h

Movement
Capabilities

18DoF

Equipped with
all useful
sensors and
much more ...

Automatic
Rechargin
Capability

Multi-model
interaction

Height (cm)

160

Meet MiPA



Meet MiPA

MiPA Use Cases

Employees Assistants

Provide Information to the Employees (Intelligent Knowledge Base)



Material Transport

Tidy Up & Watering Flowers



Customer Support

Interactive Goods-to-Person Systems



Supermarket

(Overnight) Store Surveillance and Shelf Stocking



Meet MiPA

MiPA Use Cases

Hospital Care

Providing support to nurses
(so they have more time for
patient interaction)



Kitchen Assistant

Cooking & Clean Up Support



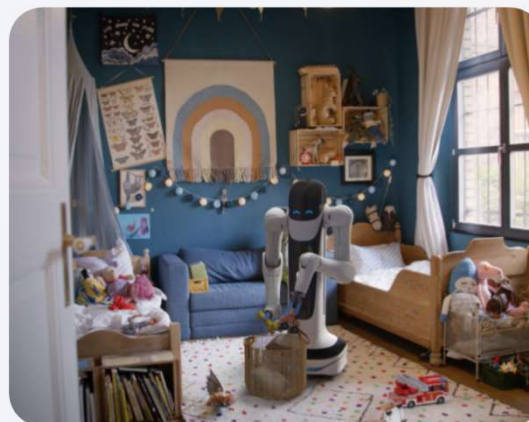
Elderly Care

Serve as an Assistant (to stay
at home longer in old age)



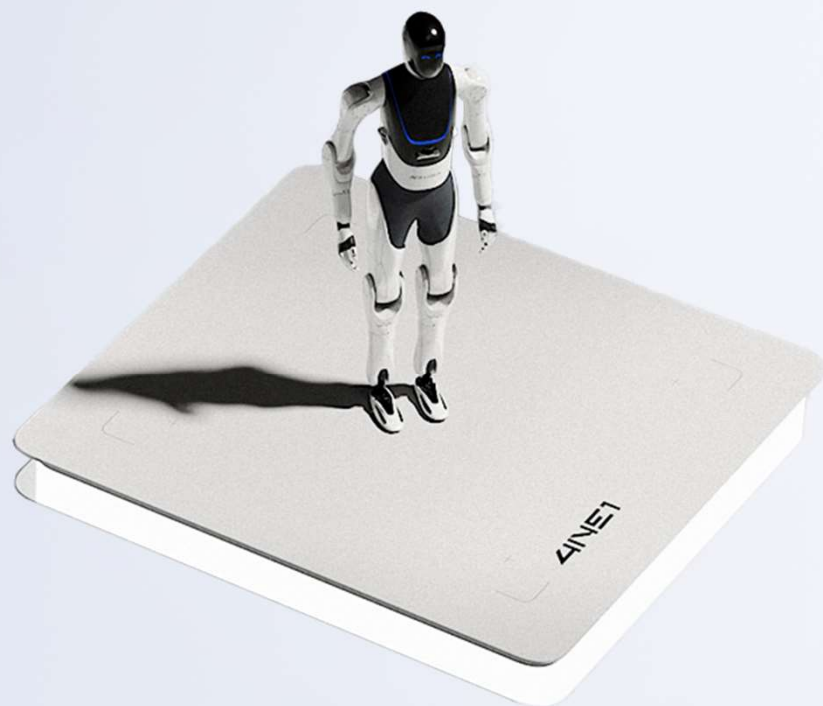
Cleaning Assistant

Tidy up your Room (Self-
Learning System)



4NE1

Our cognitive humanoid robot supporting people in all areas of life



Height (cm)

180



Weight (kg)

50

Payload (kg)
(Case dependent)

10-100

Operating
time (h)

24/7

Speed (km/h)

5

Own Hands

12 DOF

Safety

Human
Detection

Computer
Vision

360°

Control

- AI Voice
- Remote

DOF Total

55

Meet 4NE-1

4NE-1 Industry Use Cases

Inspection

Final inspection and end of line tests



Material Handling

Inserting material and operating the machine



Assembly

Assembly of human activities in manufacturing



Integration in Assembly Lines

Integration with different products



Meet 4NE-1

4NE-1 Industry Use Cases

Cleaning

Cleaning within the household



Product Presentation

Product presentation e.g. 4NE-1 as a Runway model



Garbage disposal

Bringing home automation to the next level (outside of your house)



Catering

Automated coffeeshop for guests / visitors



Wünsche an die Unternehmer aus Bösing

Wünsche an die Unternehmer aus Bösinggen

- Enge Zusammenarbeit zur Stärkung der einheimischen Unternehmen
- Sichtbarkeit der Unternehmen in Bösinggen – z.B. Gewerbetag – Tag der offenen Tür
- Eventuell mit Dunningen gemeinsam - für eine höhere Sichtbarkeit
- Neura Electronics benötigt bebaubare Grundstücksflächen für weiteres Wachstum

Thank you

we serve humanity.