# ⤬⚎DNA

# EMAG IoT Products

⤬⚎DNA **Visualize**

⤬⚎DNA **Services**

⤬⚎DNA **Health Check**

⤬⚎DNA **Edge Cloud**

⤬⚎DNA **IoT Ready**

We simplify the life of our customers!

EMAG

# 1 ✕ DNA **Health Check**

## Higher availability through predictive maintenance and lower service costs

> **Predictive maintenance**: early detection of negative trends and condition of machine components
> **Reduction of unplanned downtimes**



Health Line Chart
(Example of VSC 250 DUO)

# 2 ✕ DNA **Visualize**

## Transparency of the current production output

> Planning reliability and reduction of downtimes
> Modern collection and clear presentation of relevant data

EDNA Visualize Standard Apps



Machine Status    Cycle time    Workpiece counter

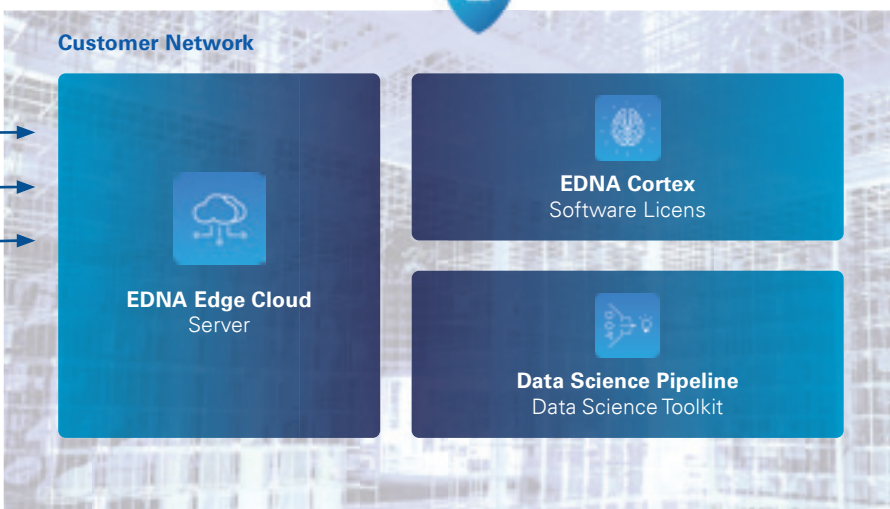EDNA Visualize Advanced



OEE    Smart-Tool-Change

# 3 ✕ DNA **Edge Cloud**

## Central edge storage and collection of all machines and data

> Data is **stored in a central location in the customer network**
> **Comparison** of several **machines or lines** possible
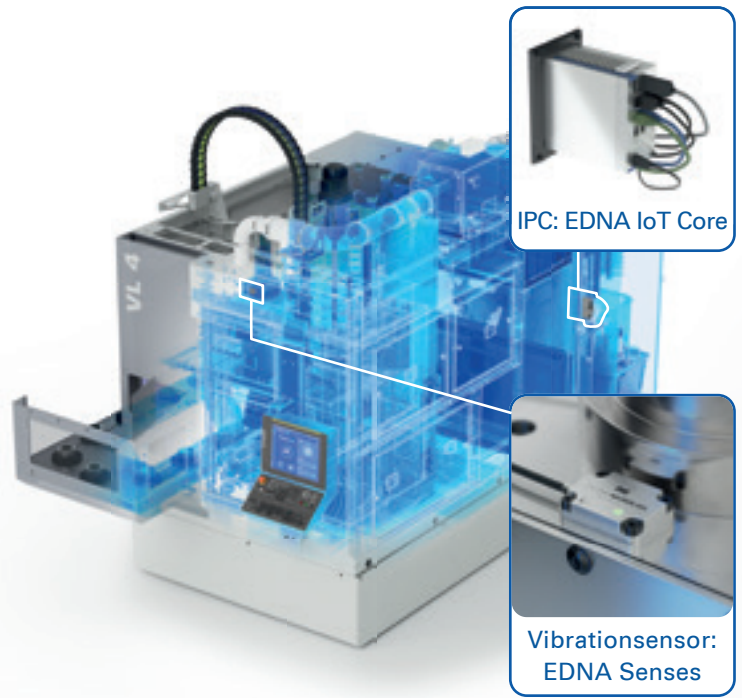> **The data does not leave the customer's plant**

Included EDNA Products

**Customer Network**



**EDNA Edge Cloud**
Server

**EDNA Cortex**
Software Licens

**Data Science Pipeline**
Data Science Toolkit

# 4 ❌DNA **IoT Ready**

## Future-proofing, compatibility and machine data

- > **PDA/MDA** ... interfaces
- > **Control-independent** industrial PC
- > **EDNA Health Check Lite** included
- > Various interfaces for **connection to EMAG or third-party systems**

**OPC UA** **umati**

**MQTT** { REST:API }

IPC: EDNA IoT Core

Vibrationsensor: EDNA Senses

# 5 ❌DNA **Services**

## Industry 4.0 basic workshop for EMAG customers

We show concrete optimisation potentials through Industry 4.0 and corresponding solutions

**1** **Initial discussion**
Current challenges & optimization potentials in your production

- > **Target group**
  Management, persons responsible for maintenance, production, IoT and digitalization

**2** **Workshop Industry 4.0**
Potentials of your production & selection of suitable solution options

anacision

1 workshop day + follow-up
Cost: 1.900 € (remote)

**3** > **Recommendations for Industry 4.0 potentials in your production**

- > **Quantify potential for savings or performance improvement**

# Success Story

**MAT MACHINING EUROPE**

## Kunde MAT ist begeistert von den IoT-Lösungen von EMAG

MAT Machining Europe GmbH has decided to gradually equip its production lines with EMAG's IoT solution. MAT is an automotive supplier and manufactures complex differential gear housings on several fully automated EMAG production lines.

**MAT - Video**

OEE increase
$\approx$ **11%**

# Your value-added products at a glance:

## ⤝⤞DNA Health Check

**EDNA Cloud**

**EDNA Health Check**
Predictive Maintenance

## ⤝⤞DNA Visualize

**EDNA Lifeline Dashboards**

**Machine Status**
App

**Cycle Time**
App

**Workpiece Counter**
App

**OEE**
App

**Smart-Tool-Change**
App

## ⤝⤞DNA Edge Cloud

**EDNA Edge Cloud**
Server

**EDNA Cortex**
Software License

**Data Science Pipeline**
Data Science Toolkit

## ⤝⤞DNA IoT Ready

**EDNA IoT Core**
Industrial PC

**EDNA Sense**
Additional Sensors

**EDNA Cortex**
Software License

**EDNA Health Check Lite**
Health status on demand

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**EMAG**