



Edmund

Speak with your machines



Unexpected downtime costs companies 1 million euro annually

Because:

A Increasing technology complexity

Harder to operate & maintain

B Lack of technical personnel

Losing know-how & fewer experts

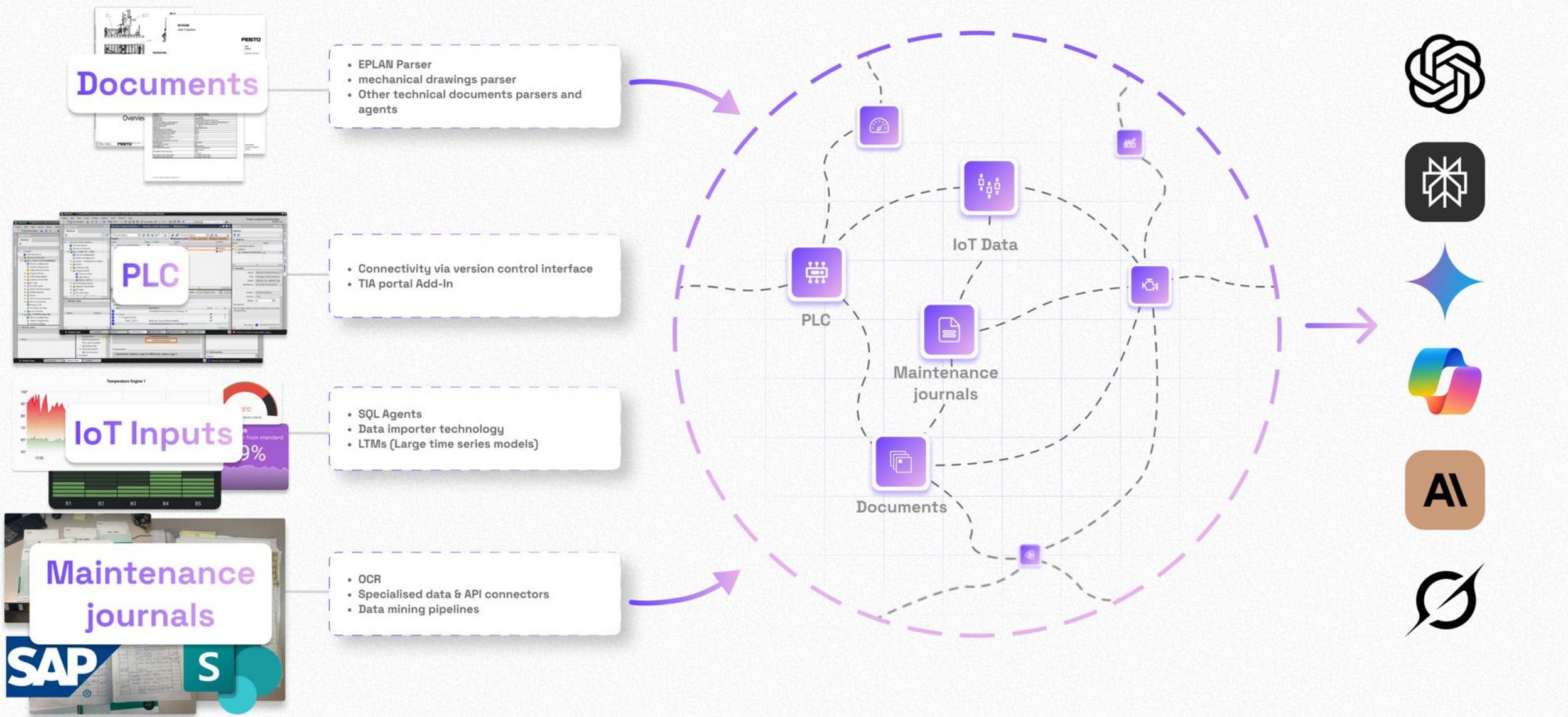
Edmund gives you back the time you need and makes machines easier to operate

Information input

Processing

EDMUND Proprietary industry-grade AI model

User interface (translation layer)



Edmund data processing overview

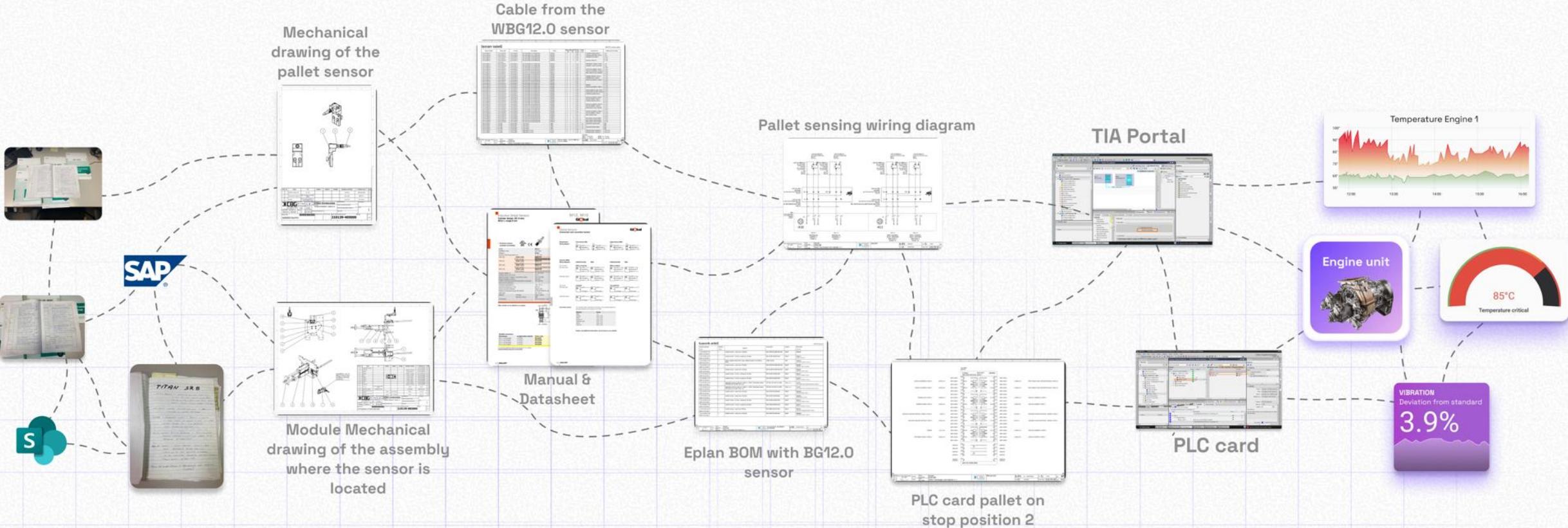
4. Maintenance journals

2. Documentation

1. Electrical schematics

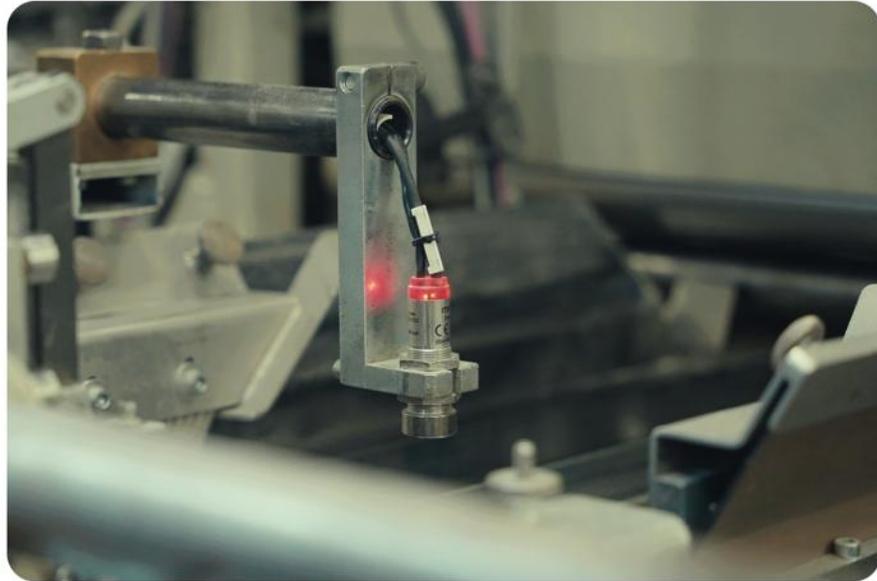
3. PLC Software

5. IOT data inputs



How it works?

Edmund enables a technician to quickly identify the root cause of a failure, provides step-by-step instructions to resolve it, and automatically creates a maintenance log entry.



Malfunction

⌚ 3 min

A technician identifies a fault on a machine.



Question to Edmund

⌚ 45 sec

Ask Edmund a question or take a photo of the machine error and upload it to Edmund via a phone or tablet.



Edmund Analysis

Documentation Check

PLC Diagnostics

Historical data analysis

Fault history review

Spare parts search

I need to find this component in the schematic: motor controller for a bandmotor.

Searching **motor controller band motor** in documents

Searching **DC Motorcontroller** in documents

Here's what I found for the "motor controller" used with the band (conveyor) motor:

- In the **MPS electrical schematic** (MPS_CircuitDiagram_3.pdf) the band-motor controller is represented by the relay/contactor module labeled - O19F1 (KALEM2-Festo-4-24), which directly drives the conveyor motor - GMMAT.
- In the **conveyor module datasheet** (8032092/8033735 - PushSheet - conveyor - v) it's mentioned that the

Type your message for Edmund here

Document Agent

Searching programs: gripper

I've located the gripper-open logic inside the "Eject_Mag" function block, which only drives the output when:

```
1. 'eject_mag' = TRUE  
+ 'mag_empty' = FALSE  
+ No existing 'mag_eject_fault' or 'mag_retract_fault'
```

Once triggered, it sets 'mag_eject_output' to TRUE. To open the gripper, then waits for the 'mag_ejected' feedback before turning it off and moving on to **Stage**.

To prevent why it never actually opens, I need the **PLC I/O mapping** for these tags:

- 'eject_mag'
- 'mag_eject_output'
- 'mag_empty'
- 'mag_ejected'
- 'mag_retracted'

Could you share the physical addresses (e.g. %Qx.y, %Mx.y) assigned to these variables in your PLC configuration? That will let me list the exact hardware points and complete the fault analysis.

Type your message for Edmund here

PLC Agent

Device 3: Temperature Sensor Readings Over Time (2022-04-16 to 2022-04-16)

Here's the summary of your analysis:

- Temperature limits from ZP-DL2130F-CR-C documentation:
 - Coolant (engine water): 112 °C [Source](#)
 - Engine oil: 110 °C [Source](#)

Type your message for Edmund here

Data analyst Agent

Weekly Regular Service of MPS station- 30.8.2025

Description

- System pressure check - Description: visual inspection of measuring devices
- Check tightening of screw connections in the switchboard - Tools used: screwdriver set, Allen keys
- Residual current device (RCD) functionality check
- Cleaning and lubrication of mechanical parts of the equipment - Tools used: brush, cloth, lubricant GF0087

Solution

Searching **MPS weekly service tasks** in journals

Here are the tasks to perform as part of the **weekly maintenance** of the MPS station, based on the last recorded service on **30 Aug 2025**:

Activity description	Interval	Required equipment	Date of last execution
System pressure check (visual inspection of measuring devices)	Weekly	-	30.08.2025
Check tightening of screw connections in switchboard	Weekly	Screwdriver set, Allen keys	30.08.2025
Residual current device (RCD) functionality check	Weekly	-	30.08.2025
Cleaning and lubrication of mechanical parts of the equipment	Weekly	Brush, cloth, lubricant GF0087	30.08.2025

[Source](#) [Source](#)

Type your message for Edmund here

Maintenance journal Agent

⌚ 3 mins

Edmund starts analyzing the issue using custom-tailored agents that help speed up and improve the accuracy of the response.

The screenshot shows a software interface with a 'Code Preview' window displaying PLC code for a gripper. The code includes logic for setting 'mag_retract' based on 'mag_retract_fault' and 'mag_retract_fault_clear'. A chat window on the right contains the following text:

```
Why is the gripper not opening?  
Searching programs: gripper  
I've located the gripper-open logic inside the 'kject_mag' function block, which only drives the output when:  
• kject_mag = TRUE  
• mag_empty = FALSE  
• No existing 'mag_retract_fault' or 'mag_retract_fault_clear'  
Once triggered, it sets 'mag_retract_output' = TRUE to open the gripper, then waits for the 'mag_retract' feedback before turning it off and moving on.  
To pinpoint why it never actually opens, I need the PLC I/O mapping for these tags:  
• kject_mag  
• mag_retract_output  
• mag_empty  
• mag_retracted  
Could you share the physical addresses (e.g. %Q1.y, %I1.x, %M.x, %Y) assigned to these variables in your PLC configuration? That will let me list the exact hardware points and complete the fault analysis.  
Type your message for Edmund here
```

- ◆ Response with explanation and repair assistance
- ◆ Maintenance log generation

Instruction generation

⌚ 10 sec

Edmund provides the technician with step-by-step instructions on how to fix the issue and simultaneously saves it into the maintenance log for future reference.



Physical repair

⌚ 20 min

All the technician then needs to do is carry out the repair. If they're unsure, they can ask Edmund follow-up questions at any time or send a photo for clarification.

Problem solving with Edmund

