

# Maintenance in the digital value chain

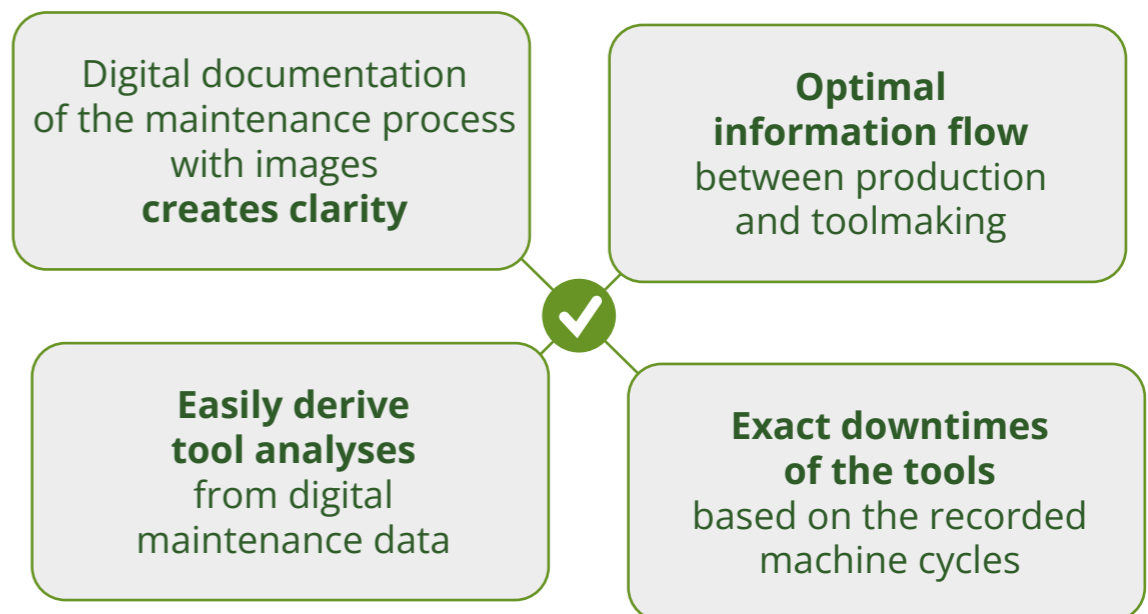


# Is this your way of performing maintenance?

Don't worry,  
You are not alone.  
But there is another way.

For example, with the digital maintenance process. This allows you to document all planned maintenance as well as fault-related repairs, including all components and spare parts used. Everything is entered seamlessly.

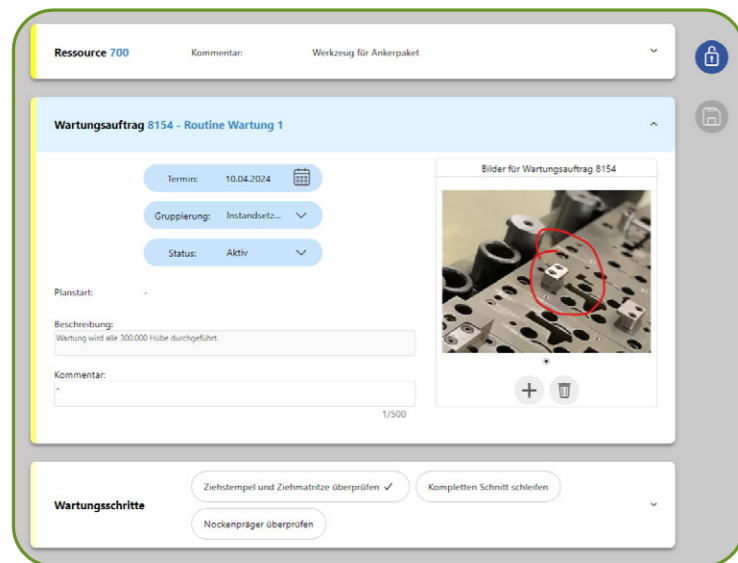
How does this benefit your production?



# The digital lifecycle card creates clarity

It allows all tool-related events, maintenance and repairs to be analyzed and tracked seamlessly.

This means that the entire service life of the machine or tool is documented in the history. Installed spare parts and their number can be traced exactly.



Easy access to all work carried out

Repair/maintenance times + spare parts

Analysis of the most frequent repairs

Lifecycle card W-00007

Row	Date	Status	Quantity produced	Label	Maintenance name	Description	Target time Maintena.
1	22.11.19:42:26	free	413.154				
2	06.04.07:29:41	in action	450.793		W 7984	Routine maintenance 1	
3	07.04.09:08:23	in action			Measure	Check the drawing punch and drawing die	122.235 [Clocks]
					Spare part	All drawing punches + drawing dies...	
					Spare part		
					Spare part		
					Measure	Grind complete cut	All drawing punches + drawing dies...
					Measure	Checking the cam embosser	fff
							07.04.12:54:26
							07.04.13:06:15
4	07.04.12:53:25	in action	532.885		R 7987	Tool repair	
5	07.04.12:54:28	repair			R 7988	Tool repair	
6	07.04.13:04:07	In action	533.030				
7	07.04.13:06:17	Repair	533.030				
8	07.04.13:07:43	In action	547.097				
9	19.04.08:20:31	In action	589.862		W 7993	Maintenance before storage	
10	20.02.16:10:13	In storage	589.862		W 7986	General tool maintenance	
11	21.04.14:45:13	In storage			W 8014	Drawing punch	
12	18.08.14:27:25	In storage			R 8020	Repair bender	
13	20.07.10:43:04	In storage			W 8029	Maintenance before production	21.07.-09:27:28 [Pcs.]
14	21.07.09:27:28	In storage					
15	21.03.18:00:41	In storage			589.862		
16	21.03.18:00:41	In storage					



## Dashboard toolmaking

### Machine 7

**Tool damage**

Tool 1

Article	Start	Tool
0035	20.04.	Tool 3 In storage
0350	21.04.	Tool 1 In storage
0065	22.04.	Tool 6 Repair

Status: Repair is active

### Machine 9

Tool 3

Article
0230
0420
0085

Status: Maintenance active

### Machine 8

Tool 2

Article	Start	Tool
0023	20.04.	Tool 1 In storage
0125	21.04.	Tool 2 In storage
0048	22.04.	Tool 5 In storage

Status: Maintenance active since 17.04.

### Machine 10

Tool 4

Article
0130
0042
0090

Status: Repair is active

The classic case: The machine stops due to tool damage. And stops. And stops...

### The solution?



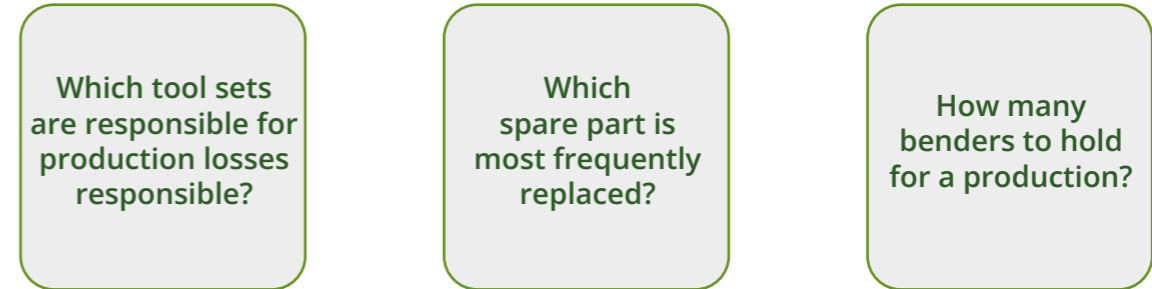
# Optimize processes betw. production and toolmaking ...

... and thus simply increase machine running times. Everyone knows the current tool status and availability.

# Exakt downtimes

In the digital maintenance process, the tool including all the tool components used in the required level of detail by the maintenance manager.

Your tool shop is informed when a maintenance cycle expires and the life cycle map is automatically updated. This forms the basis for complete documentation of a tool's entire life cycle.



Processed spare parts

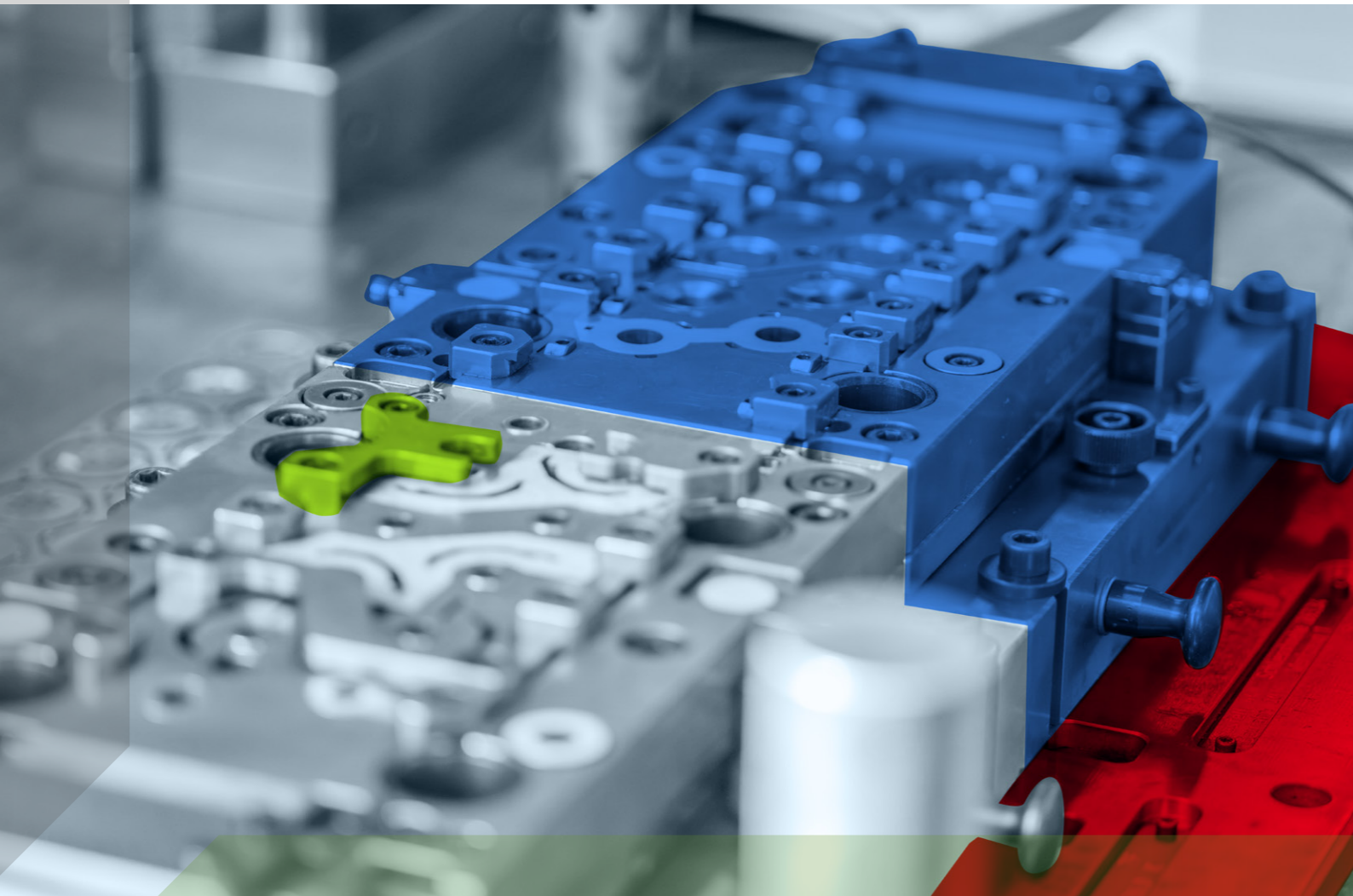
From: 06.02.2021 To: 10.02.2023

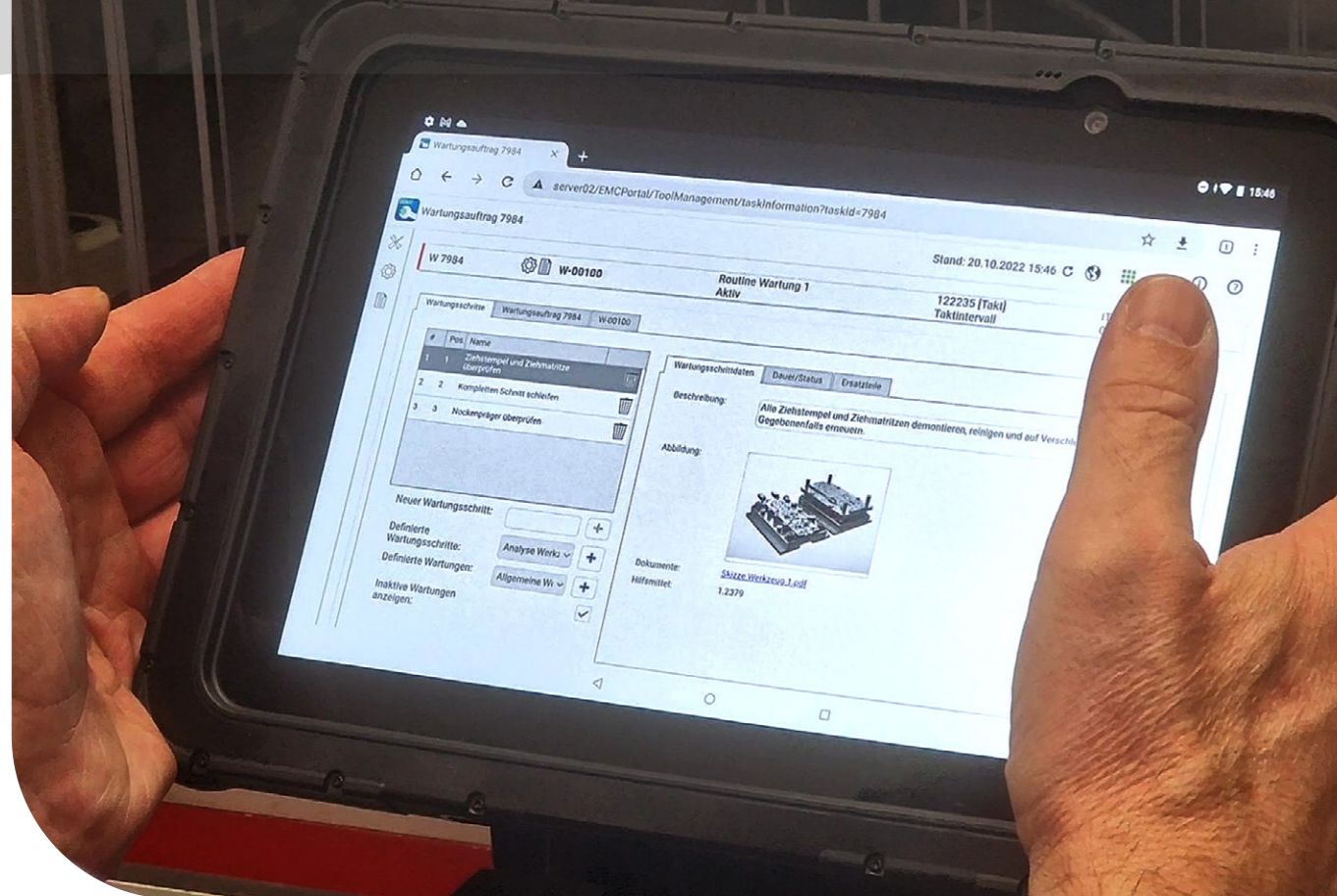
Resource: W-00014

Action: exchanged, repaired

Spare part	Ø quantity	Absolute incidence		
Code A1	1.365.556,67	3		
	Time	Amount	Quantity	Action
	22.02.2021 12:41:00	1	3.686.221,00	repaired
	30.05.2021 18:56:00	1	155.585,00	exchanged
	25.07.2021 14:05:00	1	254.864,00	exchanged
Code A2	1.935.225,67	3		
Code A3	1.187.450,34	3		
Code A4	892.576,67	3		

## Turn digital tool data into knowledge





# The solution for the digital factory

Our user-friendly MES Software EMC controls all digital processes on the shopfloor, from planning, implementation and maintenance to traceability, shipping, production orders and sustainable evaluation.

It adapts completely to your needs, integrates into your existing IT landscape and merges the data streams from ERP and shopfloor.

## Successful digital rollout of maintenance

It's easier than you might think.

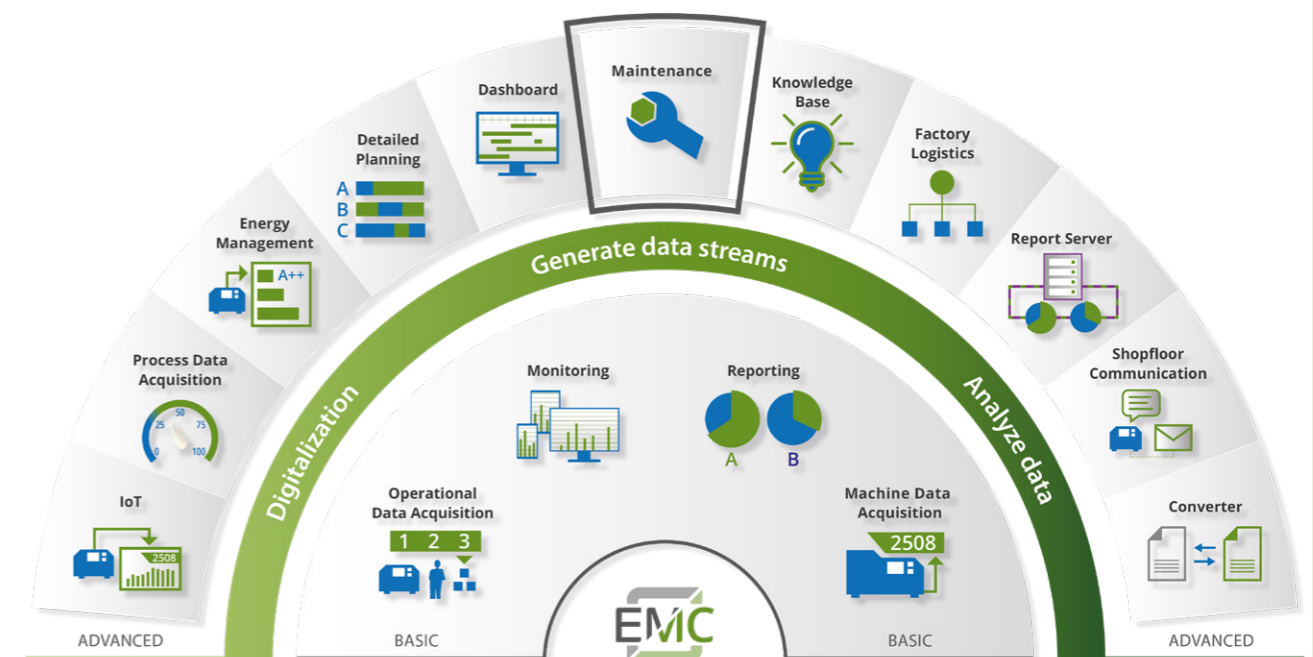


or



for a meaningful and up-to-date lifecycle card

for significantly higher data quality and thus better informative value of the analyses and reports



The modular architecture of the MES Software EMC offers you the freedom and flexibility you need to implement your smart networked production. Together with the central MES database, it forms the basis for customer-oriented implementation - step-by-step or holistically - individual modules or as a complete system.

No matter which solution you choose, with EMC you are always one step ahead and have the best possible transparency in production. All with the aim of increasing your efficiency.



IT Engineering Manufacturing Solutions GmbH is your provider of a well-developed Manufacturing Execution System in production management.

As an IT and MES expert in the metal forming industry and thanks to our large network of partners and memberships in associations (including VDFI and netzwerkdraht e.V.), as well as the best contacts with machine manufacturers, we know exactly how to obtain the important data and how to use it to digitalize processes and thus increase efficiency and productivity in manufacturing.

Our MES Software EMC acts as a central information hub and, by integrating the production data, ensures integration of production data for transparent production processes, flexibility and cost efficiency.

With a high level of technical and industry competence as well as many years of experience and expertise, we accompany you personally and step by step in transforming your production into a digital factory.

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