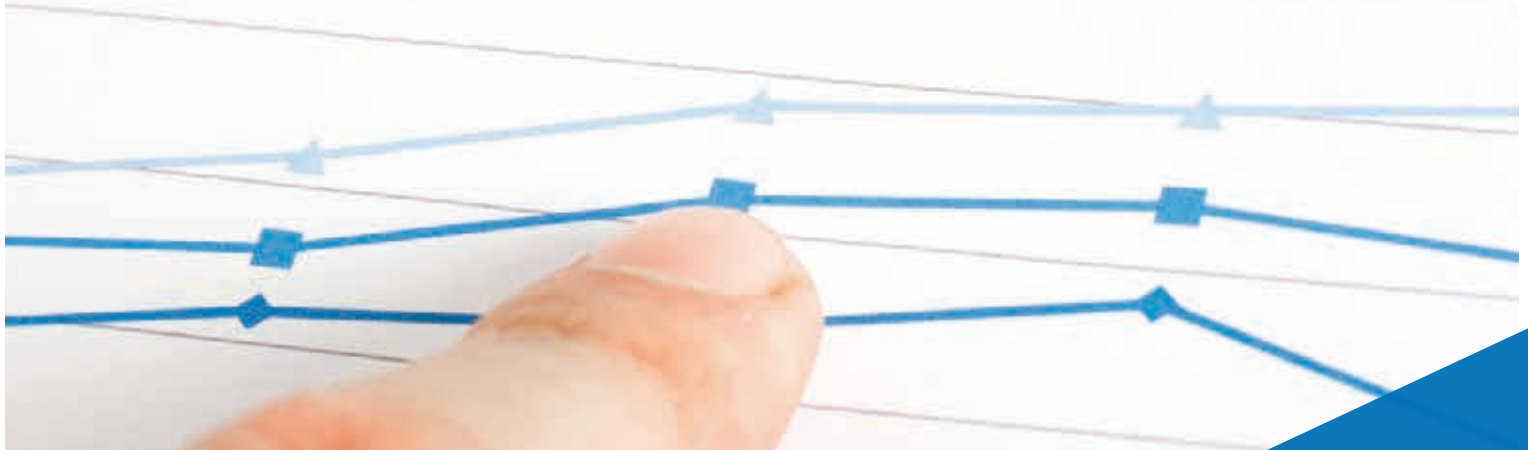


	RES	TOT
12	10535	
9	10724	
10448		
10769		
11245		
12296		
0321		
293		
76		
9		

	ARL	CFT	T
49	A		1
18329	A		10
486	A		10
1938	B		10
19	A		101
185	A		101
19	A		1010
993	A		1010
123	B		1011
4	A		10100



# FMECA

PREVENTIVE AND  
RELIABLE.

# FMECA

A failure mode, effects and criticality analysis (FMECA) analyzes all the components of your Uhlmann machine or line, assesses the probability of their failure, and defines preventive measures. In addition, our experts reliably ascertain the spare parts requirements of your Uhlmann machines. A cost-benefit assessment is also carried out and we define a spare parts inventory

strategy based on replacement times. This means that you have the right number of the right spare parts available for immediate use. The findings established by the FMECA form the basis for maintenance planning tailored to your production and machine environment. The outcome: you remain that vital step ahead of a machine standstill.

## SIX ISSUES, NUMEROUS QUESTIONS. OUR ANSWER: FMECA

### 1 Spare parts inventory

Which parts need to be stocked in which numbers? Which of these pose a possible risk and how can this risk be minimized? What annual costs are involved?



### 2 Maintenance

Which machine components have to be cleaned and lubricated? What cycles are involved here? How can the components be reset to their original state?



### 3 Servicing

How are servicing intervals calculated? Can a service be carried out internally or is the assistance of an Uhlmann technician necessary? How is a comparison of the actual and target state carried out?



### 4 Repairs

Which parts can be exchanged by company personnel and which require an Uhlmann service technician? How can full functionality be regained?

### 5 Calibration

Which intervals must be adhered to and which components need calibrating?

### 6 Training

What qualifications are required for in-house personnel to carry out maintenance measures? Which Topman Training modules are suitable in this respect.



# FMECA

## YOUR BENEFITS

- Avoidance of downtimes in advance on the basis of regular and preventive maintenance.
- Improved machine reliability and effectivity.
- Continuous, correct, and GMP-compliant operation of your machines and lines according to national and international specifications.
- Completion of maintenance and repair measures with due regard to economic aspects.
- Reliable budget planning and full cost transparency at all times.



### ACTIVE SPARE PARTS MANAGEMENT

You wish to go one step further? Find out about our active spare parts management for inventory optimization. We undertake regular optimization of the inventory for your machines in four stages or offer machine-related spare parts packages for your new Uhlmann machines.  
[www.uhlmann.de/en/spare-parts-management](http://www.uhlmann.de/en/spare-parts-management)



Learn more about Uhlmann services.

THE **HEARTBEAT** OF PHARMA PACKAGING

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**Excellence United**