



VIDEO MACHINE OPTIMISATION



Who we are?

... A small and experienced team and effectively use our knowledge and modern video technologies since 16 years for our clients in diverse industries – specially biomechanics.





Who we are?

A well-known automobile manufacturer is one of our existing clients who's machines we have successfully video optimised.



Norbert Krosta



Josef Radix



What's VMO?

Process optimisation of machining centres and production machine with video technologies

The implementation of newest videocamera and analysis technologies grants a significant optimisation and quality improvement of the cycle times of production machines and machining centres.

*All process steps will be shown in videos, either for **RECORDING** as well as **ANALYSIS** and **DOCUMENTATION** – for new settings + programming...*



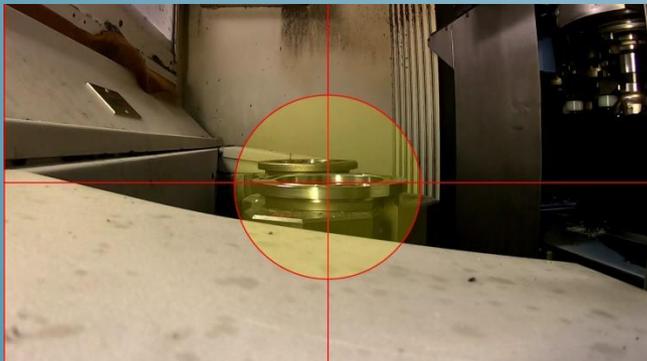
Machine optimisation

- 1. the recordings



[Please click the text or fotograph for the videolink](#)

- synchronical recording with 4 cameras
- in the machine, outside the machine
- with 100 or 200 pictures per second
- different video cameras / formats



[Please click the text or fotograph for the videolink](#)

- Reproducible, without parallax errors
- Calibrated, horizontal, vertical
- In the right angle



Machine optimisation

- 2. the analysis

Machine 745-Hangar 3
 Setting: 123-45
 Indication: fast

Video 1
03:46.990

Maschine 745-Halle 3
 Einstellung: 123-45
 Hinweis: schnell

Time 1	00:04.710
Time 2	00:02.280
Time 3	00:02.500

Zeit 1	00:04.710
Zeit 2	00:02.280
Zeit 3	00:02.500

- Texts in videos
- Cutting videos
- Multiple time measurements

[Please click the text or fotograph for the videolink](#)

17.56 cm
 Messung 1
 Measurement 1

1.88 cm
 Messung 2
 Measurement 2

41.00 cm
 Referenzwert
 Reference value

Measure distances
 Abstände messen

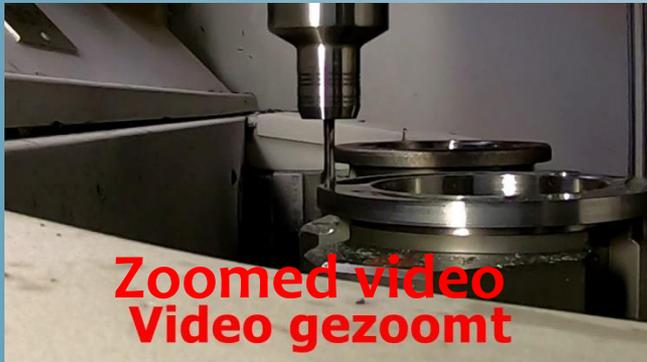
- Measure spaces and distances

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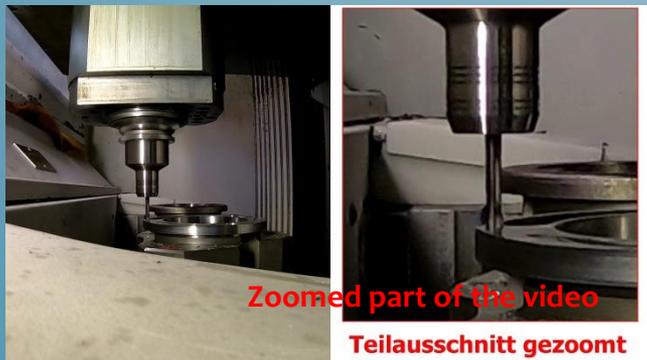
Machine optimisation

- 2. the analysis



[Please click the text or fotograph for the videolink](#)

- Zoom full video



[Please click the text or fotograph for the videolink](#)

- Zoom parts of the video



Machine optimisation

- 2. the analysis



- Synchronise 2-4 videos subsequently

2 synchronous videos - previous 2 synchronous videos - optimised
[Please click the text or fotograph for the videolink](#)



- Synchronise 2-4 videos subsequently

[Please click the text or fotograph for the videolink](#)



Machine optimisation

- 2. the analysis



Videos synchron - in ÜBERBLENDUNG
Synchronous videos - in CROSS-FADE

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- 2 videos synchronous cross-faded



Video 16-fach verlangsamt
Video 16-fold slowed down

[Please click the text or fotograph for the videolink](#)

- Safe videos slowed down, i.e. 16-fold slower or infinitely



Machine optimisation

- 2. the analysis



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[Please click the text or fotograph for the videolink](#)

- Measure angle static and dynamic

- Tracking of objects



Machine optimisation

- 3. the documentation

START SAMMLUNGEN **VIDEOS** Videos durchsuchen

3/4
3

Video 1

03:42.220

Zeit 1	00:04.710
Zeit 2	00:00.010
Zeit 3	00:00.000

Maschine 745-Halle 3
Einstellung: 123-45
Hinweis: schnell

Favoriten Download Veröffentlichen

DOKUMENTATION + ANLEITUNG 3 Zugriffe Full HD

Dauer: 01:04
In öffentlich Sammlung: Video Maschinen Optimierung
Veröffentlicht auf 13 September 2019
von Norbert Krosta

- Digital instruction as secured link
- Relevant positions are highlighted in the video with precise
- Basis for change of machine or programming

[Please click the text or fotograph for the videolink](#)



What is our service?

We visit your company along with our knowledge and the complete technical equipment.

Onsite and on your machines we present and conduct the video recordings. We analyse the videos together with your, point out the potentials in the analyses and prepare a convincing documentation and feasible guideline for the changes of your machine.



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