WAFIOS

Quality Enhancement by Synchronization of the Loading and Grinding Time

iQ bestload

for

spring end grinding machines

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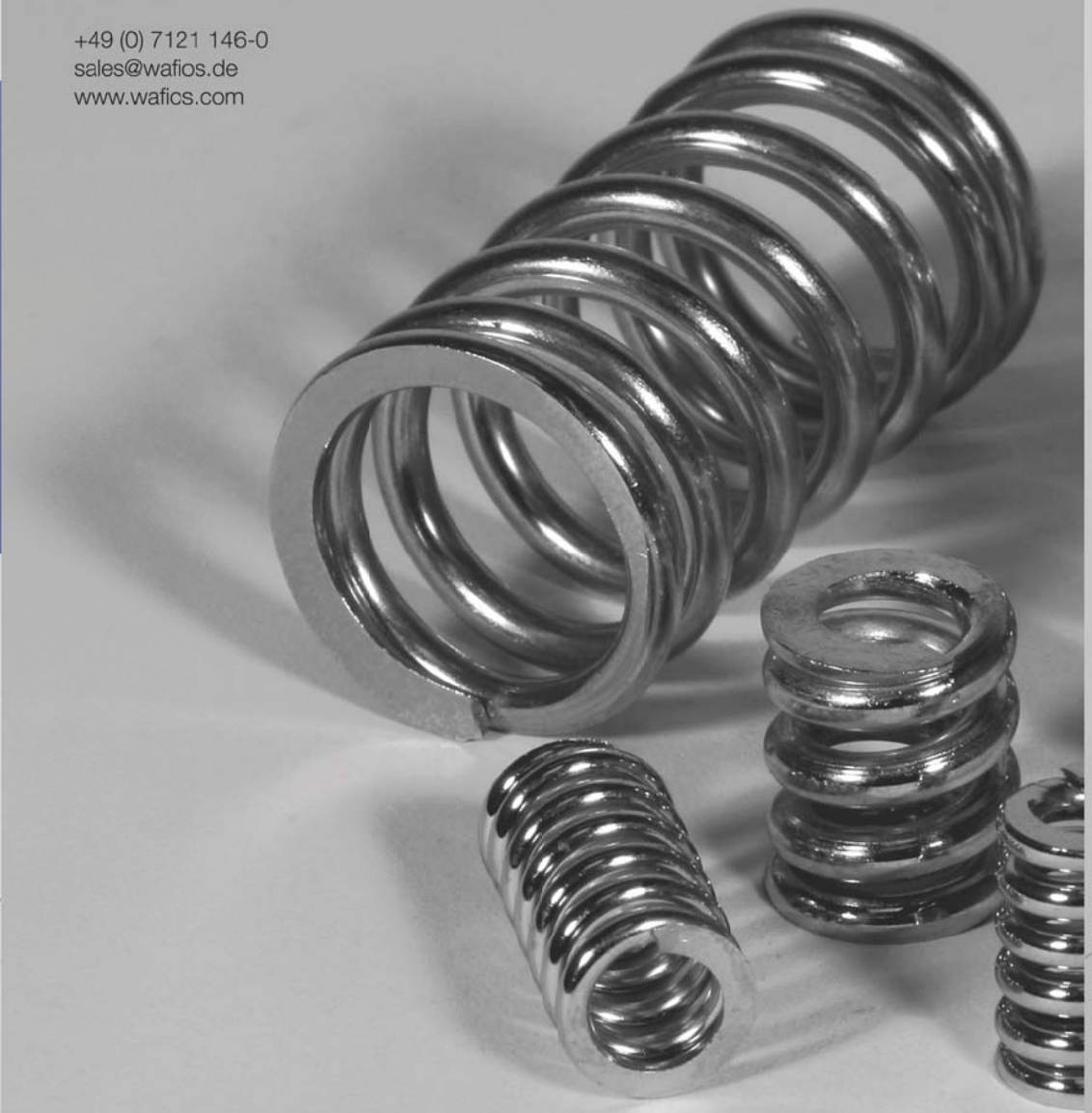

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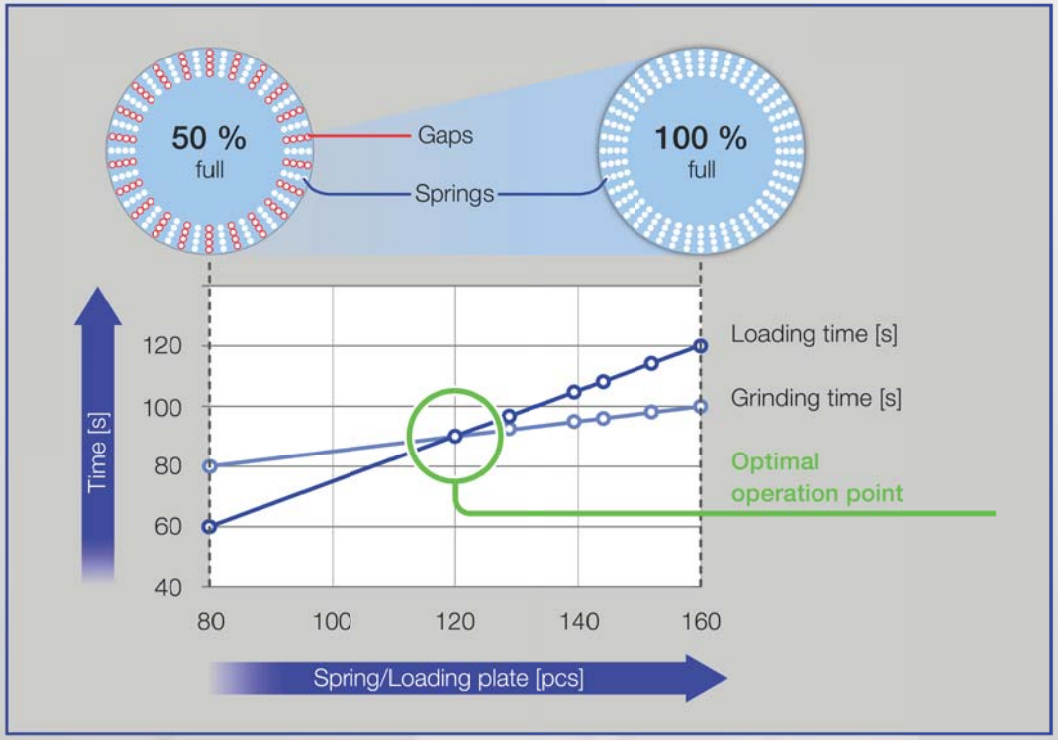
- Enhanced spring quality
- Optimization of the machine utilization ratio
- Faster set-up
- Increased machine's productivity

Situation

- During automatic loading of the loading plates on dual-plate machines, the loading times are longer than the grinding times for certain spring sizes
- Ideally, the loading times and grinding times should be approximately the same
- If springs with the same outer dimensions but different wire diameters are ground on one loading plate, the grinding time also changes compared to the loading time
- The additional time the bottom spring ends contact the grinding wheel causes an unwanted additional grinding of the spring ends

Solution



- *iQbestload* enables predefined, incomplete loading of the loading plate during indexed, automatic loading
- With an optimized loading of the loading plate, the loading time can be adjusted to the grinding time
- The time the finish-ground springs contact the lower grinding wheel can be reduced
- This reduces the contact time of the finish-ground springs with the lower grinding wheel
- Furthermore, the process time is shortened as well because there are no quality-reducing waiting times and the machine and loading unit can be used optimally

Requirements

- Interface for loading unit
- Automatic loading unit
- Number of gaps on the loading plate is between two and half the number of spring reception holes
- The number of gaps must be integer factors of the number of spring reception holes