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Service Bulletin

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| Zierer Bulletin # | Revision: | Page | System | Description: | Date: | Issued: |
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| SB-WS-1001 | 0 | 1 of 4 | Wave Swinger | Service Bullitin | 17.12.2012 | wmt |
| Original Ride Manufacturer | | | Release Date | Affected Production Dates: | Ride Name: | |
| ZIERER – Karussell und Spezialmaschinenbau | | | 02.02.2013 | 2011 and earlier | Wave Swinger | |

1. Affected Serial Nos. and/or Ride Type:

Serial 200 001 till 200 022

Serial 220 002 till 220 005

Serial 042 001 till 042 141 / 042 901 till 042 920

2. Reason for release:

With reference to EN 13814 and in collaboration with TUEV, we would like to inform you on the current additions to the components of the Zierer Wave Swinger that will be relevant for safe operation.

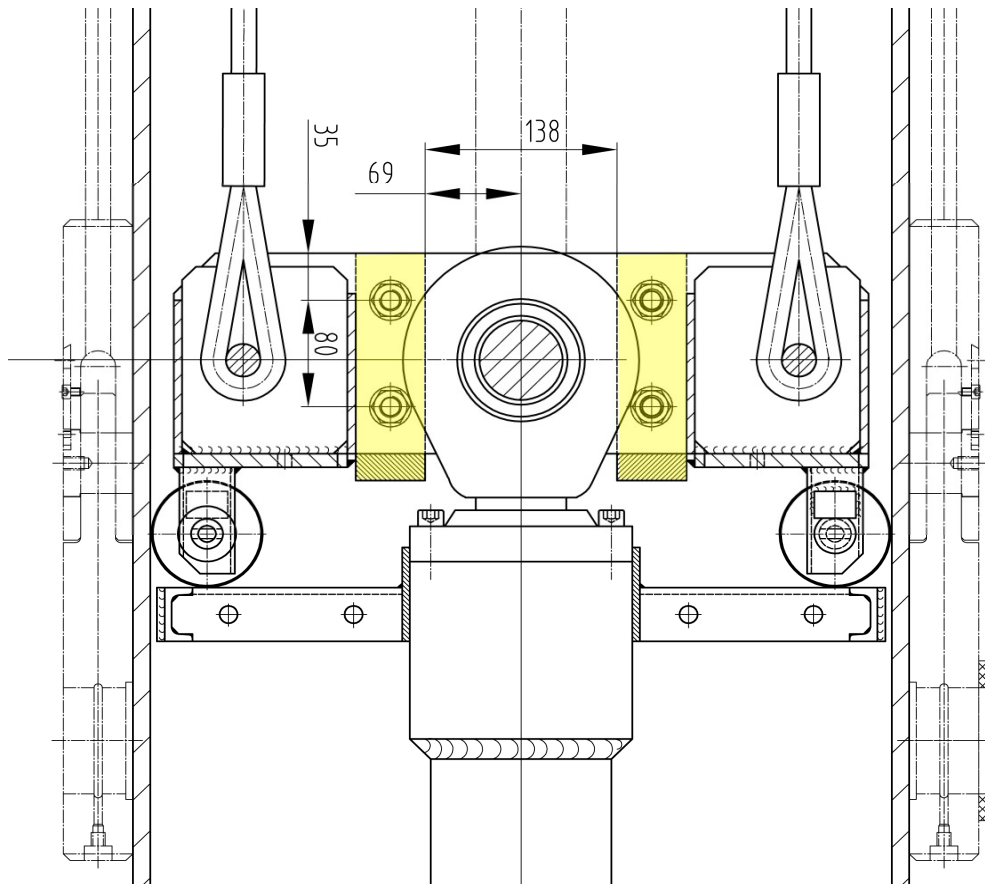
We recommend to proceed with these modifications, in agreement with your local inspection authorities, also on your ride facility.

3. Actions to be taken:**3.1. Slack Rope Control at Lifting Rope****Slack Rope Control Zierer Article No.: VK080063**

2 sets of slack rope controls, at the lifting rope, monitor and provide for a safe and tightened movement of the lifting rope. The controls are screwed next to the lifting ropes with mounting angles and fixing materials. They need to be subsequently integrated into the electronic control system. In the event of a malfunction, the rope will move away from the range of the sensor and cause a halt to the operation of the facility.

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3.2. Hydraulic Cylinder – Safeguarding Guide Cross Top

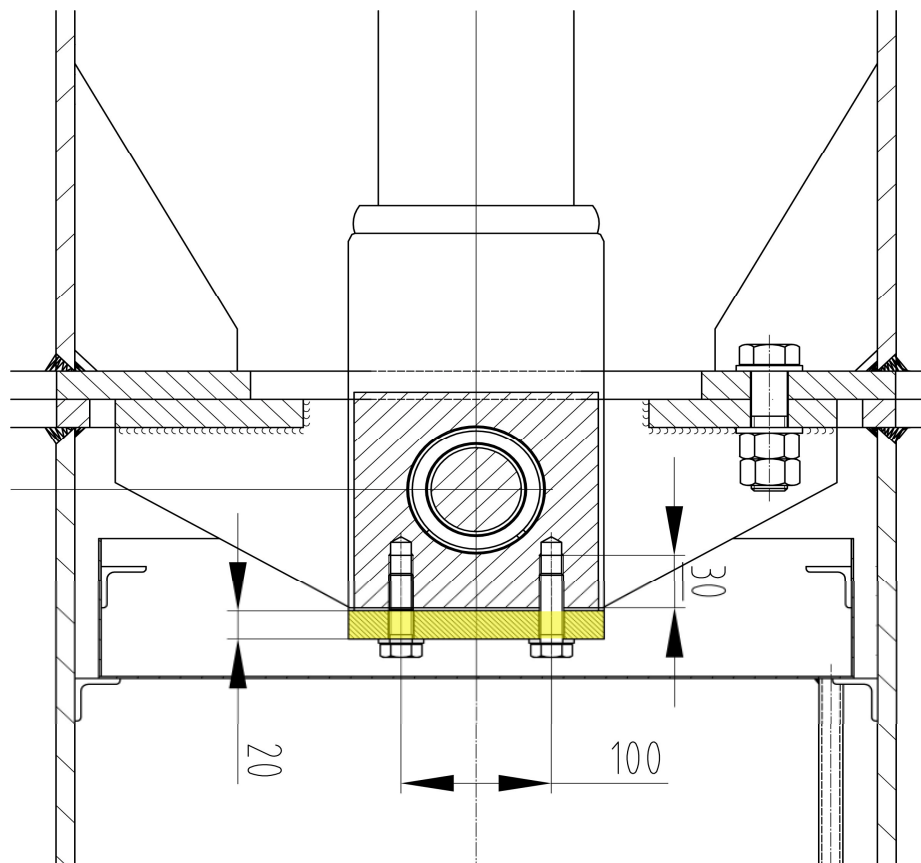


Lifting Cylinder-safeguarding [top] Zierer Article: HZ020078

2 items of additional fork-safeguardings prevent the cylinder joint head from slipping away in the event of a breakage of the suspension. The fork-safeguardings are installed axially with a set of 4 screws each, and a distance of 138 mm to one another, at the guide cross.

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3.3. Hydraulic Cylinder – Safeguarding Cylinder Clamping Bottom



Lifting Cylinder-Safeguarding [bottom] Zierer Article: HZ020079

1 item of additional counter-plate prevents the release of the cylinder clamping in the event of a breakage of the suspension. With this plate, the cylinder is additionally secured. The plate is bolted in the center with 2 screws to the cylinder eye.

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4) Contact

For additional informations regarding installation, details and pricing of the mentioned modifications above, contact the:

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