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Service Info

Attn.

- **Management**
- **Technical Management**

Amusement Rides

2. September 2010

Dear Customers,

As supplier and manufacturer of one of the successful roller coasters of the **X-Car series** we are sending you the latest information in reference to safety, maintenance and service of your system, to give you the best customer support.

In the light of recent findings, we would like to inform you through the attached Service Bulletin 001/10 about the coupling bar assembly on the cars of your Sky Loop system.

We would like to ask you to take note of the documents, to inform all persons concerned by this matter promptly and comprehensively and to implement the described measures according to the given instructions.

We deeply regret the present circumstances and the resulting consequences, but hope for your understanding because of the importance of this matter.
If you have further questions on this case, we will gladly provide you with more information.

We wish you every success for the close of the 2010 season and thank you for the excellent cooperation.

Sincerely,

Maurer Söhne Rides GmbH


Guido Bäuerle
Manager Customer Support

Customer Support

Maurer Söhne Rides GmbH
Frankfurter Ring 193
80807 Munich

Service Bulletin 001/10

September 2010

Safety-related express notification, please make sure this is read and dealt with immediately!

System: Sky Loop or X-Car Coaster,
Assembly: Coupling bar for X-Car vehicle (tandem train)

1. Findings

We are conducting regular measurements and load tests on the different assemblies of our systems in order to determine whether our calculations will also prove themselves in practice over many years to come.

In the course of such testings, we have examined the coupling bar of our X-Car vehicle with respect to its life span. Strain gauge measurements have resulted in the following:
The existing loads can exceed the calculated forces in practice, having the effect that the coupling bar along with the coupling elements are not fatigue endurable.

Therefore, we are forced to revise the design of the coupling bar and the two coupling elements (coupling parts on the two ends of the coupling bar). The repair solution or new design will be available in approx. 2-3 months (practical test included). As soon as we have successfully concluded examination of these parts, we will modify the parts installed in your systems free of charge or, if applicable, send you the new parts for installation.

2. Immediate measures

Until the above-mentioned measures have been completed, it is absolutely necessary to check the existing coupling bars and coupling parts by means of NDT tests (non-destructive material testing) according to the following instructions.

Any operation of the Sky Loop or X-Car Coaster with tandem train must be immediately and strictly stopped until the examination has been evaluated!

The examinations have to be carried out by you on site (if you have appropriate personnel and devices as well as an authorisation for conducting these) or by an authorised examiner. The examinations are to be effected by means of ultrasonic testing (pos. 1) and magnetic particle inspection (pos. 2,3,4) according to the attached drawing. Until the parts have been replaced or modified, these examinations must be repeated every 3 weeks or after another 200 hours of operation (the earlier point in time is applicable, respectively), in case you have determined that there are no defects during the initial check.

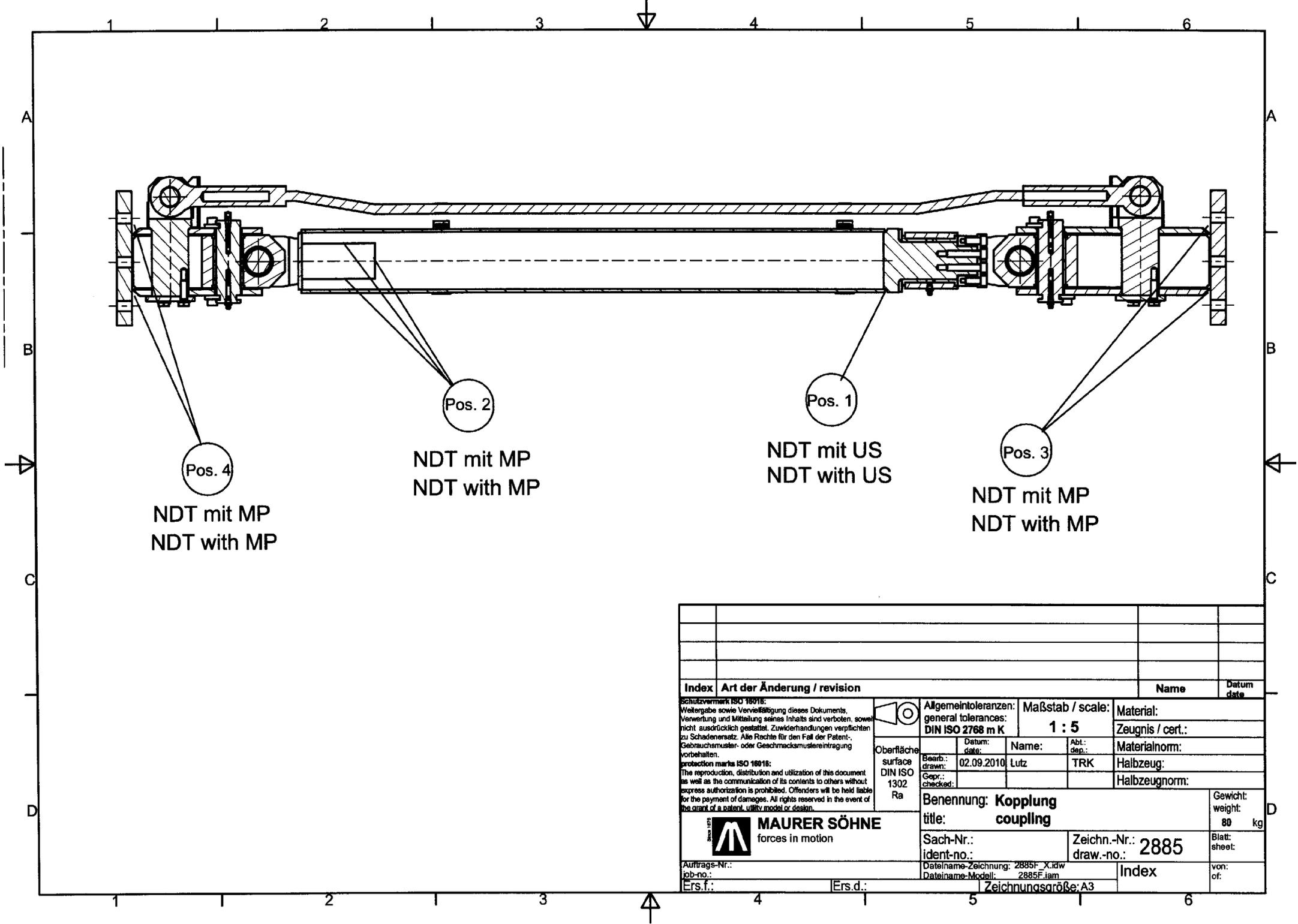
If you find any cracks (no matter what size or type) on the checked locations **or any other irregularities**, the system must be shut down immediately **in order to prevent serious accidents posing a danger to health and life of persons**.

Please contact us in this case for discussing remediation / repair measures. We have prepared short-term remediation measures allowing you to quickly resume operation of your system.

We deeply regret the present circumstances and the resulting consequences, but hope for your understanding because of the importance of this matter. If you have further questions on this case, we will gladly provide you with more information.

Munich, 2nd September 2010


Guido Bäuerle
Manager Customer Support



Pos. 4
 NDT mit MP
 NDT with MP

Pos. 2
 NDT mit MP
 NDT with MP

Pos. 1
 NDT mit US
 NDT with US

Pos. 3
 NDT mit MP
 NDT with MP

Index		Art der Änderung / revision		Name	Datum date
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<small>Oberfläche surface DIN ISO 1302 Ra</small>	<small>Allgemeintoleranzen: general tolerances: DIN ISO 2768 m K</small>		<small>Maßstab / scale: 1 : 5</small>		<small>Material: Zeugnis / cert.:</small>
	<small>Bearb.: drawn: 02.09.2010</small>	<small>Datum: date: Lutz</small>	<small>Name: TRK</small>	<small>Abt.: dep.:</small>	<small>Materialnorm: Halbzeug:</small>
<small>Benennung: Kopplung title: coupling</small>					<small>Gewicht: weight: 80 kg</small>
<small>Sach-Nr.: ident-no.:</small>			<small>Zeichn.-Nr.: 2885 draw-no.:</small>		<small>Blatt: sheet:</small>
<small>Auftrags-Nr.: job-no.:</small>				<small>Index</small>	
<small>Ers.f.:</small>		<small>Ers.d.:</small>		<small>Zeichnungsgröße: A3</small>	

