

# Certificate concerning the examination of traction sheave shaft calculation

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**Lift machine, type:** HW140C

**Ordered by / Manufacturer:** GEM General Elevator Machines S.r.l.  
V. le Caproni 18  
38068 Rovereto (TN) - Italien

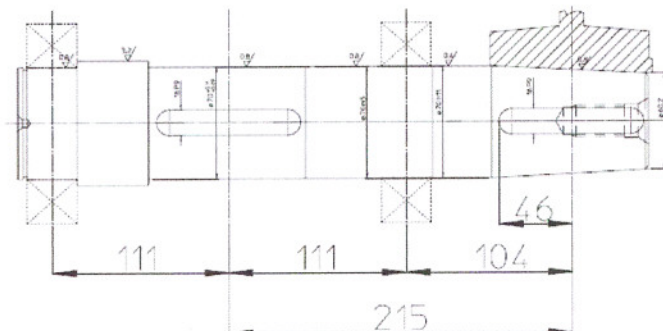
**Number of examination** 1533003

**Object examined** Calculation of maximum value of traction sheave shaft

**Examination basis:** DIN 743, DIN 6892  
Roloff-Matek, machine elements (edition 1992)

**Examination documents:** Calculation-no. 01.0114062C, pg. 1-7 / 2010-02-16  
Drawing-no. G01.140.62C

**Load data:** See variety of equipment in the calculation



Date: 2010-08-10

Our reference:  
IS-FSH-MUC/mai

Document:  
100810\_BS\_GEM\_HW140C\_en.doc

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1 Page.  
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Design drawing: G01.140.62C / 08.12.2006  
Material: 42CrMo4+QT (1.7225)

## Load data

Traction sheave diameter	mm	480	560	600
Max. shaft load stat.	kN	30,5	30,5	30,5
Nominal moment	Nm	1137	1326	1421

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The test results refer exclusively to the units under test.

## Examination result

The examination of the calculation was carried out on the basis of a comparison calculation. The result was that the traction sheave shaft and the connection shaft-hub are rated at the maximum load data in accordance with the requirements of the examination basis. The remarks in the maintenance instruction are to be attended.

Prüflaboratorium für Produkte der Fördertechnik  
Prüfbereich Aufzüge und Sicherheitsbauteile



i. V. Gerold Jilg

The Expert



Martin Maier

