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about the verification of the calculation of a traction sheave shaft

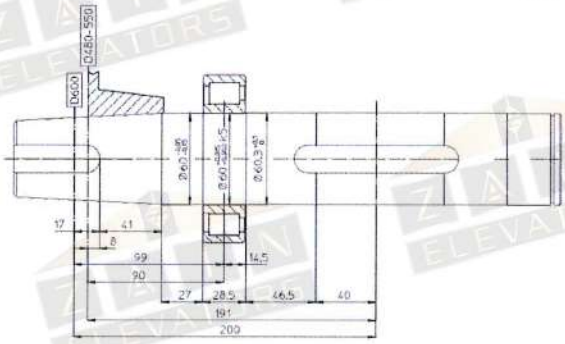
Type of the machine: **HW134/HW134L**

Manufacturer: GEM General Elevator Machines S.r.l.
V. le Caproni 18
38068 Rovereto (TN) - Italy

Examination number: **G 627**

Tested product: Traction sheave shaft – Calculation of the traction sheave shafts of the company GEM S.r.l. no. 01.0223462B dated 2015-06-08 (Page 1 - 7)

Basis of examination: DIN 743 (12/2012), calculation of the safe working load of shafts and axis
DIN 6892 (08/2012), Drive type fastenings without taper action - Parallel keys - Calculation and design
Roloff/Matek, machine elements, vieweg-publishing house



Construction drawing: G.02.234.62B dated 2011-04-11 w. l. a. dated 2013-07-22

Permissible materials shaft: Steel EN 10083-3 (08/2006) - 42CrMo4+QT (1.7225+QT)

Load data:

Traction sheave diameter	mm	480	550	600
Max. shaft load stat.	kN	23	23	20
Rated torque	Nm	974,33	1082,69	1015,58

Test result:

The verification of the calculation was carried out by means of a comparative calculation and is documented and evaluated in the test report no. FIL-ETK2-15-0058 dated 2015-08-03. The test proved that the traction sheave shafts and the shaft-hub connections of the traction sheave are dimensioned in accordance with the details of maximum load according to the requirements of the basis of examination. The remarks in the maintenance instruction have to be observed.

Test laboratory for lifts and cranes
Business unit lifts and cranes

Peter Retzbach

The expert

Caroline D'hein

Date: 2016-01-13

Our reference:
IS-FTA-STG/Dh

Document:
BS_G627_160113_en_rev1.docx

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The test results refer exclusively to the units under test.