



Industrie Service

Certificate

about the verification of the calculation of a traction sheave shaft

Type of the machine: HW140C / HW140CL

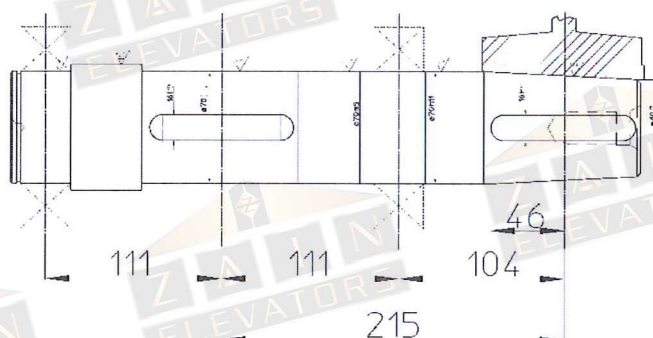
Manufacturer: GEM General Elevator Machines S.r.l.
V. le Caproni 18
38068 Rovereto (TN) - Italy

Examination number: G 657

Tested product: Traction sheave shaft – Calculation of the traction sheave shafts of the company GEM S.r.l. no. 01.0114062C dated 2010-02-16 (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

Choose certainty.
Add value.



Date: 2017-06-20

Our reference:
IS-FTA-STG/No

Document:
BS_G657_170620_en.docx

This Document consists of
1 Page.
Page 1 of 1

Construction drawing: G.01.140.62C dated 2006-12-08

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

Load data:

Traction sheave diameter	mm	480	560	600
Max. shaft load stat.	kN	30.5	30.5	30.5
Rated torque	Nm	1137	1326	1421

Excerpts from this document may only be reproduced and used for advertising purposes with the express written approval of TÜV SÜD Industrie Service GmbH.

Test result:

The verification of the calculation was carried out by means of a comparative calculation and is documented and evaluated in the test certificate no. 1533003 dated 2010-08-10. 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.

The test results refer exclusively to the units under test.

Test laboratory for lifts and cranes
Business unit lifts and cranes

Peter Retzbach

The expert

Chadi Nouredine

