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The test results refer exclusively to the units under test.

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: Praction 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)

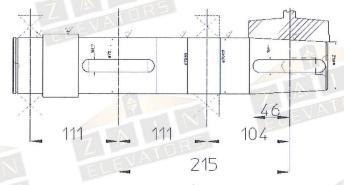
Basis of examination: DIN 743 (12/2012), calculation of the safe working load of

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



Construction drawing:

G.01.140.62C dated 2006-12-08

Permissible materials

Steel EN 10083-3 (08/2006) - 42CrMo4+QT (1.7225+QT)

shaft:

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

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.

Test laboratory for lifts and cranes Business unit lifts and cranes

Peter Retzbach

The expert

Chadi Noureddine

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