

Industrie Service

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GmbH.

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The test results refer exclusively

to the units under test

with the express written approval of

## Certificate

about the verification of the calculation of a traction sheave shaft

Type of the machine: HW175 / HW175C

Manufacturer: GEM General Elevator Machines S.r.I.

V. le Caproni 18

38068 Rovereto (TN) - Italy

Examination number: G 658

Tested product: Traction sheave shaft - Calculation of the traction sheave

shafts of the company GEM S.r.l. no. 01.0117562B dated

2010-09-01 (Page 1 - 7)

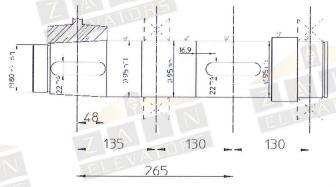
DIN 743 (12/2012), calculation of the safe working load of Basis of examination:

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.01.175.62B dated 2010-04-23

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	51.0	51.0	51.0
Rated torque	Nm	2464	2479	2482

## **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. 1565860 dated 2010-10-29. 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

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