

Inspection Report 5279324

CarTower
Type verification



SGS-TÜV Saar GmbH, Am TÜV 1, D-66280 Sulzbach

GRAVIS Industry s.r.o.
Na Zbytkách 41

739 01 Staré Město

Czech Republic

Machine data:

Type of unit: CarTower
Manufacturer: GRAVIS Industry s.r.o.
Type: CT8L
Serial number: CTL8 20/001
Year of manufacture: 2019

Inspection site: Staré Město, CZ

Inspection date: 26th to 28th May 2020

**Rules of examination: EC-Machinery-Directive 2006/42/EC
EN 14010:2003+A1:2009**

Inspections done:

- certificate check
- design check
- visual check
- functional test
- load test
- operation of all safety

Findings:

See report on the following pages

Result:


The equipment is:

- safe for operation
No deviations were found.
- partly safe for operation
The findings must be addressed in time
- not safe for operation
All findings must be addressed prior to operation

A further inspection is:

- not required
- required after removal of faults
- to be done until:

Sulzbach, 12.06.2020


The authorized expert:
Alexander H. Huy

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A. Preamble

GRAVIS Industry s.r.o. produces a machine for the power driven parking of motor vehicles. The machines, named CarTower, are produced on their factory site in Staré Město, CZ. During the 26th to 28th of May 2020, a representative sample of the CarTower was inspected to verify the compliance with the provisions of EU-Machinery Directive 2006/42/EC and the harmonized standard EN 14010:2003+A1:2009 by SGS-TÜV Saar GmbH. The following report state the result of those tests.

B. Report

In accordance with EN 14010:2003+A1:2009 6.1:

“The following methods of verification are included in Table 3:

a) certificate check: the intention of which only being to establish whether the certificate relating to a component or equipment is adequate to meet the requirements of the standard (symbol "C" in the table);

b) design check: the intention of which only being to establish whether the design of the machine, system or component is adequate to meet the requirements of the standard (symbol "D" in the table);

c) visual check: the intention of which only being to establish, whether something is present on the machine, system or component (e.g. guarding, visual warning device, marking), or that documents, drawings provided for the user are adequate to meet the requirements of the standard (symbol "V" in the table);

d) measurement: the intention of which being to establish whether the stated measurable parameters have been met (e. g. geometric dimensions, safety distances, isolation resistance of electric circuits) (symbol "M" in the table);

e) functional test: the intention of which being to establish whether, in an unloaded working operation, normal cycle or part of cycle, the machine, including all safety devices, works as intended and all functions comply with the requirements of this standard (symbol "FT" in the table);

f) loaded test(s): tests outside the range of functional tests, the intention of which being to establish whether, e.g. operation of all safety devices and their adjustments are adequate and the result of their actuation is in accordance with the requirements of this standard (symbol "LT" in the table);

g) specific verification/ measurements (e.g. Electrical, EMC, the intention of which being to establish whether stated parameters have been met (e.g. compliance with electrical standards) (symbol "SV" in the table).”

The test results are indicated in the table. The highlighted colors mean:

Highlighted in green: Tests passed.

Highlighted in yellow: Test not applicable

Table 3 – Verification of the requirements of this standard

Clauses of this standard	TYPE VERIFICATIONS			INDIVIDUAL VERIFICATIONS		
	Checks	Measurement	Tests	Checks	Measurement	Tests
5.1	D			D		
5.1.1	D			D		
5.2.1	D			D		
5.2.2	D, V		FT	V		FT
5.2.2.1	D, V		FT	D, V		FT
5.2.2.1.1	D, V		FT	D, V		FT
5.2.2.1.2	D, V		FT	D, V		FT
5.2.2.1.3	D, V		FT	D, V		FT
5.2.2.2	D, V		FT	V		FT
5.2.2.3	D, V		FT	V		FT
5.2.2.3.1	D, V		FT	V		FT
5.2.2.3.2	D, V		FT	V		FT
5.2.3.1	V		FT	V		FT
5.2.3.1.1	V		FT	V		FT
5.2.3.1.2	V		FT	V		FT
5.2.3.1.3	M		FT	V		FT
5.2.3.1.4	M		FT	V		FT
5.2.3.1.5	V		FT	V		FT
5.2.3.1.6	M		FT	V		FT
5.2.3.2	M		FT	V		FT
5.2.3.2.1	M		FT	V		FT
5.2.3.2.2	V		FT	V		FT
5.2.3.3	D, V		FT	V		FT
5.2.3.4	D, V		FT	V		FT
5.2.3.4.1	M		FT	V		FT
5.2.3.4.2	V		FT	V		FT
5.2.3.4.3	V		FT	V		FT
5.2.3.4.4	M		FT	V		FT
5.2.3.4.5	V		FT	V		FT
5.2.3.4.6	M		FT	V		FT
5.2.3.5			FT			FT
5.2.3.6	M		FT	V		FT
5.2.3.7	M		FT	V		FT
5.2.4.1	D, V		FT, SV _(6.2.3)	V		FT, SV _(6.2.3)
5.2.4.2	D, V		FT	V		FT
5.2.5						
5.2.5.1			SV _(6.2.1)			
5.2.5.2			SV _(6.2.2)			

Table 3 (continued)

Clauses of this standard	TYPE VERIFICATIONS			INDIVIDUAL VERIFICATIONS		
	Checks	Measurement	Tests	Checks	Measurement	Tests
5.3.1	D, V		FT, SV _(6.2.3)	D, V		FT, SV _(6.2.3)
5.3.2	D, V		FT, SV _(6.2.3)	V		FT, SV _(6.2.3)
5.3.3	D, V		FT, SV _(6.2.3)	V		FT, SV _(6.2.3)
5.3.4	D, V		FT, SV _(6.2.3)	V		FT, SV _(6.2.3)
5.3.5	D, V			V		
5.4.1	D, V	M	FT	V	M	FT
5.4.2.1	D	M	FT		M	FT
5.4.2.2	D, V	M	FT	V	M	FT
5.4.2.3	D, V		FT	V		FT
5.4.2.4	D, V			V		
5.4.2.5	V			V		
5.4.2.6	D, V			V		
5.4.2.7	D		FT			FT
5.4.3.1	D, V			V		
5.4.3.2	D					
5.4.3.3	D, V	M	FT	V	M	FT
5.4.3.4	D, V		FT	V		FT
5.4.3.5	D, V		FT	V		FT
5.4.3.6	D, V			V		
5.4.3.7	V			V		
5.4.4	D, V			V		
5.5.1	D		FT			FT
5.5.2	V		FT	V		FT
5.5.3	D, V	M	FT	V	M	FT
5.5.4		M			M	
5.5.5	M			V		
5.5.6	D, V	M		V	M	
5.5.7	M	M		V	M	
5.6.1.1	D, V			V		
5.6.1.2	D, V			V		
5.6.1.3	D, V			V		
5.6.1.4	D, V			V		
5.6.1.5	M			V		
5.6.1.6	D, V			V		
5.6.1.7	D, V	M	LT	D, V	M	LT
5.6.1.8	D, V	M	FT	D, V	M	FT

Table 3 (continued)

Clauses of this standard	TYPE VERIFICATIONS			INDIVIDUAL VERIFICATIONS		
	Checks	Measurement	Tests	Checks	Measurement	Tests
5.6.1.9	D, V			V		
5.6.2.1	D, V			V		
5.6.2.2	C, D			C, D		
5.6.2.3		M			M	
5.6.2.4	D	M		D	M	
5.6.2.5	D, V			D, V		
5.6.2.6	D, V		FT	V		FT
5.6.3.1	D, V			D, V		
5.6.3.2	C			C		
5.6.3.3	D, V			D, V		
5.6.4.1	D, V			D, V		
5.6.4.2	D, V			D, V		
5.6.4.3	C, D			C, D		
5.6.4.4	D, V			D, V		
5.6.4.5	D, V			D, V		
5.6.4.6	D, V	M		D, V	M	
5.6.4.7	D, V	M		D, V	M	
5.6.4.8	V	M		V	M	
5.6.4.9	D, V			V		
5.6.5.1	V			V		
5.6.5.2	V			V		
5.6.5.3	D, V			V		
5.6.5.4	C, D, V			C, V		
5.6.5.5	D, V	M		V	M	
5.6.5.6	D, V			V		
5.6.5.7	V			V		
5.6.5.8	V			V		
5.6.6.1	C, D, V		FT	C, D, V		FT
5.6.6.2	V		FT	V		FT
5.6.6.3	V		FT	V		FT
5.6.6.4	D, V			D, V		
5.6.6.5	V			V		
5.6.6.6	D			D		
5.7.1	V			V		
5.7.2	D, V		FT	V		FT
5.7.3	D, V			V		
5.7.4	V		LT	V		LT
5.7.5	D, V			V		

Table 3 (continued)

Clauses of this standard	TYPE VERIFICATIONS			INDIVIDUAL VERIFICATIONS		
	Checks	Measurement	Tests	Checks	Measurement	Tests
5.7.6	M	M		V	M	
5.8.1	V	M		V	M	
5.8.2		M	FT		M	FT
5.8.3	D	M		D	M	
5.8.4.1	V	M	FT	V	M	FT
5.8.4.2	V	M	FT	V	M	FT
5.8.5	V	M	FT	V	M	FT
5.8.6	V		FT	V		FT
5.8.7	V		FT	V		FT
5.8.8	V			V		
5.8.9		M			M	
5.9.1	V	M	FT	V	M	FT
5.9.2	D, V	M	FT	V	M	FT
5.9.3	V	M	FT	V	M	FT
5.9.4	V		FT	V		FT
5.10.1	D, V		FT	V		FT
5.10.2			FT			FT
5.10.3		M	FT	M		FT
5.10.4		M	FT		M	FT
5.10.5	V		FT	V		FT
5.10.6	V		FT	V		FT
5.10.7	V		FT	V		FT
5.10.8	V		FT	V		FT
5.11.1	D		FT	D		FT
5.11.2	D		FT	D		FT
5.11.3	M		FT	V		FT
5.11.4			FT			FT
5.11.5	M		FT	V		FT
5.11.6	M		FT	V		FT
5.11.7	M			V		
5.11.8	D, V	M	FT	D, V	M	FT
5.11.9	D, V	M	FT	D, V	M	FT
5.11.10	D, V			D, V		
5.11.10.1	D, V	M		V	M	
5.11.10.2		M	FT		M	

Table 3 (concluded)

Clauses of this standard	TYPE VERIFICATIONS			INDIVIDUAL VERIFICATIONS		
	Checks	Measurement	Tests	Checks	Measurement	Tests
5.11.10.3		M			M	
5.11.10.4	V		FT	V		FT
5.11.10.5	D, V			D, V		
5.11.10.6			FT			FT
5.11.10.7			FT			FT
5.11.10.8	V			V		
5.11.10.9	D, V	M	FT	D, V	M	FT
5.11.10.10	V	M	FT	V	M	FT
5.11.10.11	D, V		FT	D, V		FT
5.11.11	V		FT	V		FT
5.11.12.2						FT
5.11.12.3			FT			FT
5.11.12.4			FT			FT
5.11.12.5			FT			FT
5.11.12.6			FT			FT
5.11.13.1	V		FT	V		FT
5.11.13.2	V		FT	V		FT
5.11.13.3	V		FT	V		FT
5.11.13.4	D, V		FT	D, V		FT
5.11.14	D, V		FT	D, V		FT
5.12	D, V	M	FT	D, V	M	FT
7.1.1	V			V		
7.1.2	V			V		
7.1.3	V			V		
7.1.4	V			V		
7.1.5	V			V		
7.2.1	V			V		
7.2.2	V			V		

C. Result

The type verification performed on CarTower CTL8 20/001 was successful.

There are no deviation.