

Declaration of manufacturer Mechanical gears

Series	414F... (3:1)
Test Lab / Client	Gerhard Geiger GmbH & Co., Schleifmühle 6, 74321 Bietigheim-Bissingen, Germany
Standard	DIN EN 14203 (D) July 2004, Blinds and shutters – Capability for use of gears with crank handle – Requirements and test methods

Test data

Family of products	Rolling shutter / other awnings		
Gear type	Worm gear	Reduction ratio i	3:1
Torque M_s [Nm]	3,5	Efficiency η (M_s)	0,35

Test results

Forced operation test carried out			
Test effort P_F [N]	60 (10,8 Nm) (Working radius 0,18 m)		
Cycles	35	Passed	YES

Number of achieved cycles	7.000 (endurance class 2)
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This gear series is in conformity with the requirements of the directive DIN EN 14203 dated July 2004

Divergence from the norm:

Due to the strong thermal load at the test rig, the outflow of tiny amounts of lubricants is unavoidable.



Bietigheim-Bissingen, 08.12.2009

Hans-Michael Dangel (General Management)