

## Declaration of manufacturer Mechanical gears

Series	<b>414F6..</b>
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	<b>other awnings (EN 13561)</b>		
Gear type	<b>Worm gear</b>	Reduction ratio $i$	<b>6:1</b>
Torque $M_S$ [Nm]	<b>8,00</b>	Efficiency $\eta$ ( $M_S$ )	<b>0,34</b>
For folding arm awning			
Torque $M_{SN}$ [Nm]	<b>X</b>	Torque $M_{SP}$ [Nm]	<b>X</b>

### Technical data / Test results: forced operation test

Forced operation test <b>carried out</b>			
Test effort $P_F$ [N]	<b>60 (10,80 Nm)</b>		
Cycles	<b>50</b>	Passed	<b>YES</b>

### Technical data / Test results: endurance test

Torque $M_S$ [Nm]	<b>8,00</b>		
For folding arm awning			
Torque 90% of travel $M_{SN}$ [Nm]	<b>X</b>	Torque 10% of travel $M_{SP}$ [Nm]	<b>X</b>
Number of achieved cycles	<b>10.000 (endurance class 3)</b>		

**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.

