

MOTORIZED WORM TESTERS

INTRODUCTION

Our worm testers use a standard gear tester basis (1), on which is installed a worm support (2).

They are PC driven, motorized testers

They allow :

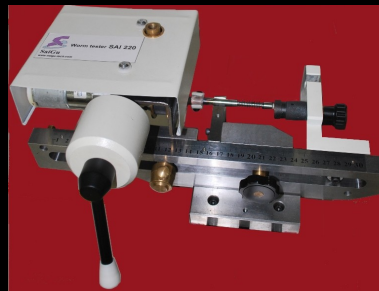
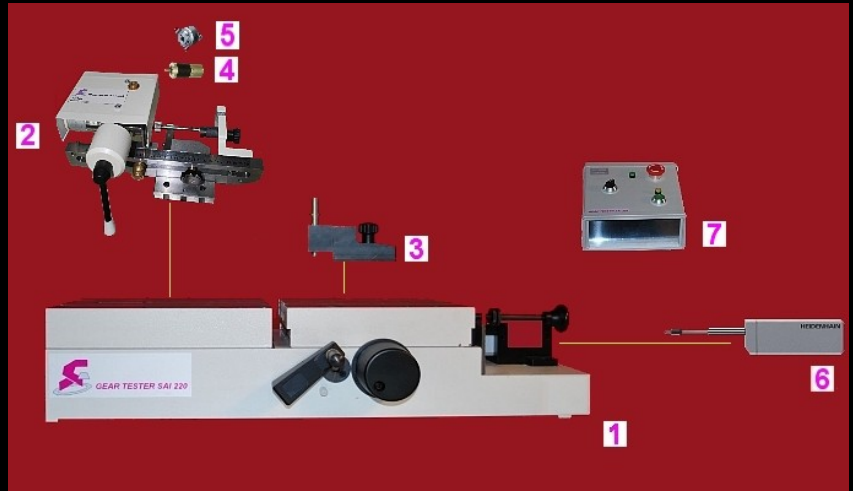
- the measurement of F''_i
- the detection of shocks
- the acoustic noise prediction
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MEASUREMENT

- Coding of the rotation of the worm by rotary encoder (5) (Heidenhain ERN 1000 as standard)

- Heidenhain gauge sensor accuracy +/- 0.2 microns as standard (6).

Other gauges available on requirements



THE WORM SUPPORT

The worm support, as a standard feature, includes :

- a motor (3)
- a rotary encoder (4)
- a belt with adjustable tension, to drive the worm



ACOUSTIC NOISE PREDICTION

Some calculation extrapolated from the measurement graph can also be used to predict if some acoust noise will be generated by the worm in its final use

TECHNICAL DATA

Worm shafts supporting

- length : adjustable from 80 mm to 300 mm (standard)
- support of worm shafts : Ve supports (standard)
- Drive of worm shaft : Belt
- Pressure of the belt on the worm shaft adjustable

Measurement

- Speed of worm rotation : adjustable from 0.5 rev /sec to 2 rev / sec
- Accuracy : 2 microns

General

Weight : 28 Kg
Power supply : 220 VAC

