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Systematical success



# Solutions. For today and the future



**Industry solutions for power tools**

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Thomas Seeger

# Power tools

Safety testing

Run-in

Long-term analysis

Torque

### Shock-proof high voltage test

- Flexible adaptation
- Contact monitoring
- 0 .. 5,000 VAC
- Automatic test process



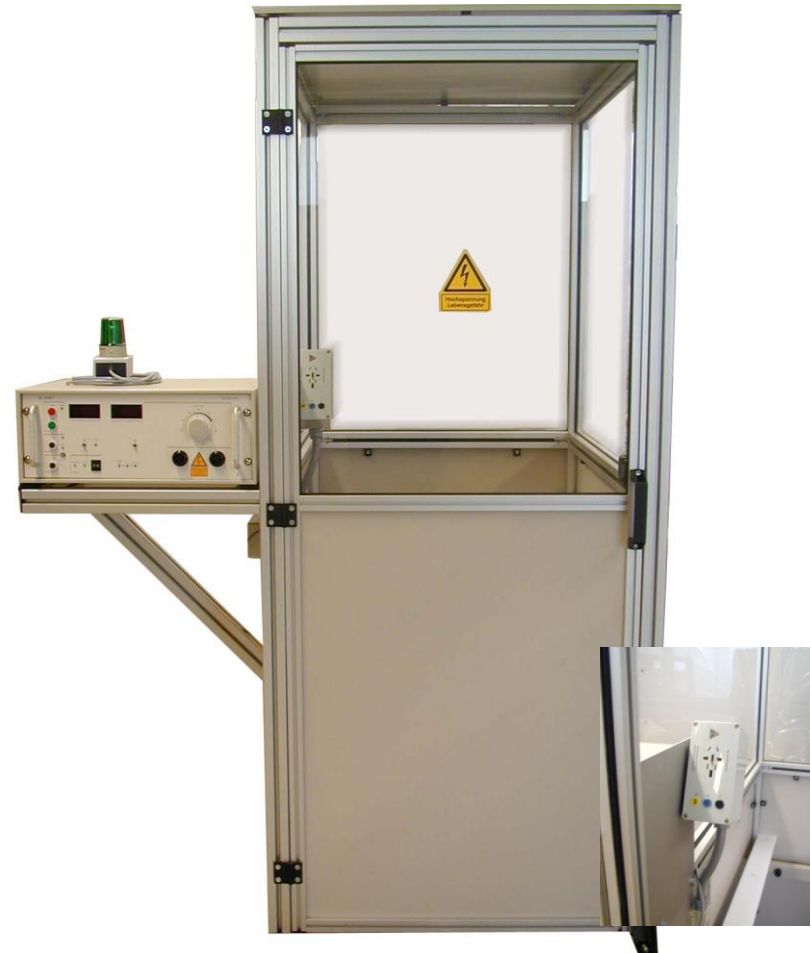
### Shock-proof high-voltage and PE conductor testing

- Negative matrix for adapting the housing
- Contact monitoring
- 0 .. 5,000 VAC
- 0 .. 350 m $\Omega$
- Automatic test process



### High-voltage test for large devices

- Flexible adaptation
- Contact monitoring
- 0 .. 5,000 VAC
- Automatic test process



### Run-in system for battery-powered devices

- Three testing compartments
- Power supply units  
0 .. 20 VDC/40A
- Built-in timer for each testing chamber  
0 .. 99 min with shut-off after time has elapsed
- Highly effective sound damping



### Run-in system for small devices

- Eight drawer compartments
- Up to two test specimens per compartment
- Built-in power supply units for simultaneously running-in machines with different supply voltages  
2 x 0 .. 265 VAC/ 25 A
- Built-in timer for each testing chamber  
0 .. 99 min
- Air supply and exhaust equipped with smoke detectors
- Highly effective sound damping





### Run-in system for large devices

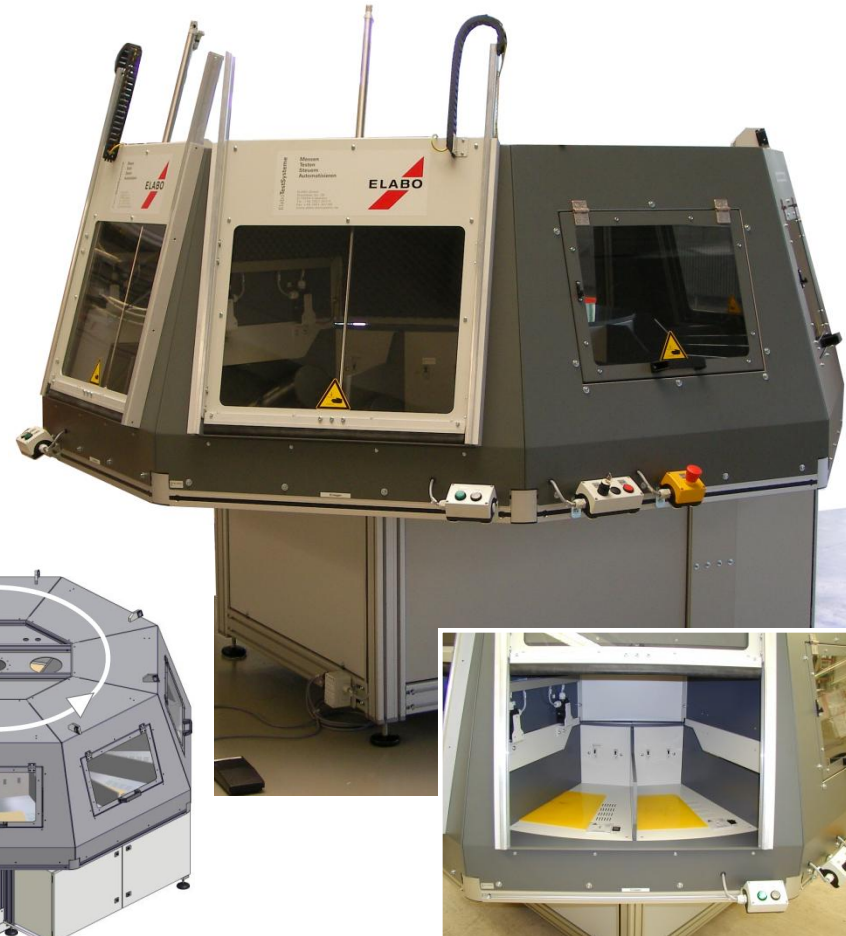
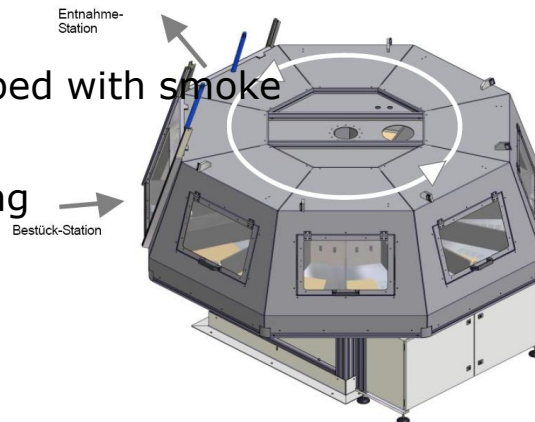
- Four testing chambers into which devices can be driven
- Up to two test specimens per compartment
- Built-in power supply units for simultaneously running-in machines with different supply voltages  
2 x 0 .. 265 VAC / 25 A
- Built-in timer for each testing chamber  
0 .. 99 min
- Air supply and exhaust equipped with smoke detectors
- Highly effective sound damping





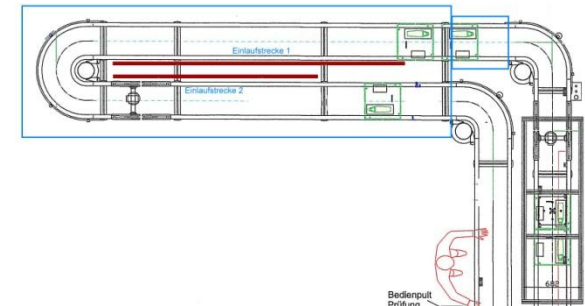
### Run-in system for small devices

- Eight testing segments
- Up to two test specimens per segment
- Built-in power supply units for simultaneously running-in machines with different supply voltages  
2 x 0 .. 265 VAC / 25 A
- Built-in timer for rotation  
0 .. 99 min
- Air supply and exhaust equipped with smoke detectors
- Highly effective sound damping



### Run-in conveyor system

- Run-in on product carrier system
- Up to 20 devices simultaneously
- Built-in power supply units for simultaneously running-in machines with different supply voltages  
2 x 0 .. 265 VAC / 25 A
- Adaptation via busbar system
- Air supply and exhaust equipped with smoke detectors
- Highly effective sound damping



### Safety and functional testing systems for mixing devices

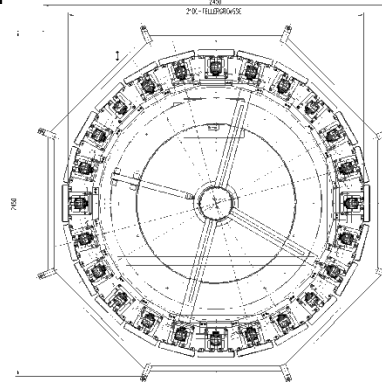
- High-voltage test  
incl. 4-conductor contact monitoring
- Rotational speed measurement
- Power measurement
- Visual inspections
- Storage of measured values
- Logging
- Label printing



### safety testing and RunIn

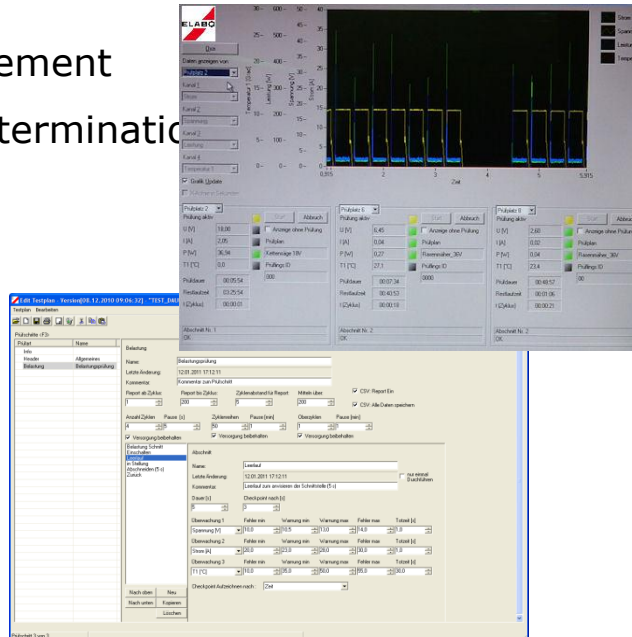
#### Run-in and safety testing system for angle grinders

- Eight testing segments
- Up to three testing specimens per segment
- Built-in power supply units for simultaneously running-in machines with different supply voltages
- Built-in timer for rotation 0 .. 99 min
- Air supply and exhaust equipped with smoke detectors
- Highly effective sound damping
- High-voltage test 0 .. 5,000 VAC
- Rotational speed measurement
- Temperature measurement of gearbox
- Measurement of power consumption



### Long-term analysis for electric garden tools

- 3 flexible DC power supplies
- Current / voltage measurement
- Power measurement
- Temperature measurement
- Characteristic line determination
- Profile sequencer
- Data storage





### Long-term analysis for power tools

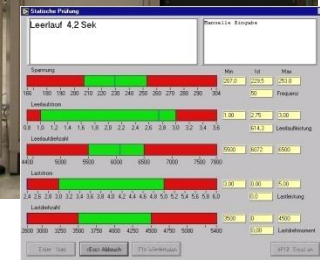
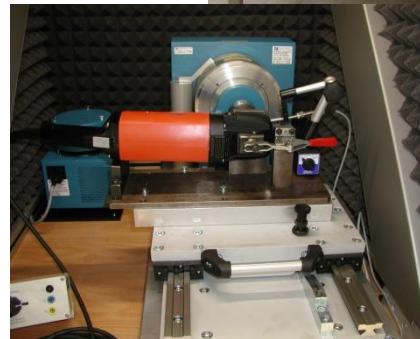
- Flexible voltage supply
- Torque stimulation / determination
- Measurement of rotational speed
- Current / voltage measurement
- Power measurement
- Temperature measurement
- Characteristic line determination
- Stimulation of test specimens
- Profile sequencer
- Data storage





### Torque testing system

- Supply voltage 0 .. 300 V / 20 A  
50 .. 400 Hz
- Torque measurement 0 .. 14 Nm
- Rotational speed measurement 12,000 U/min
- Idling / measurement of nominal rotational speed
- Dynamic recording of characteristic line
- Flexible coupling





## ELABO GmbH

a euromicron Group company

Rossfelder Str. 56

D-74564 Crailsheim

Tel: +49 (0) 7951 / 307 – 0

Fax: +49 (0) 7951 / 307 – 66

Email: [info@elabo.de](mailto:info@elabo.de)

Web: [www.elabo.de](http://www.elabo.de)