

LTT24 - fast, flexible and precise measurement technology



LTT24 - up to 4 MHz at 24 Bit

AT FULL SPEED WITH HIGHEST PRECISION

24 Bit AD-conversion at up to 4 MHz sampling rate

Digital measurements accurate to nanoseconds

Pulse/counter inputs: 832 MHz \triangleq 1.20 ns resolution

20 Bit analog outputs up to 2 MHz

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INCREDIBLY FLEXIBLE

Recording with a PC or an internal SSD (500 GB)

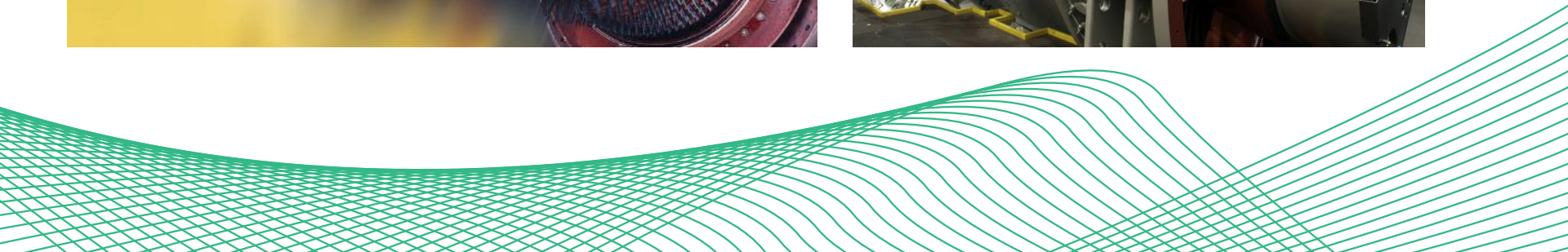
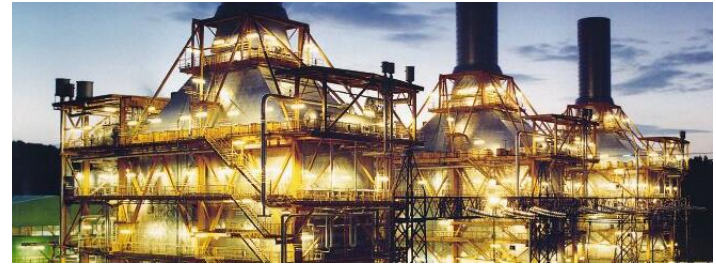
Modular housing concept 4, 8, 12, 16 channel inserts

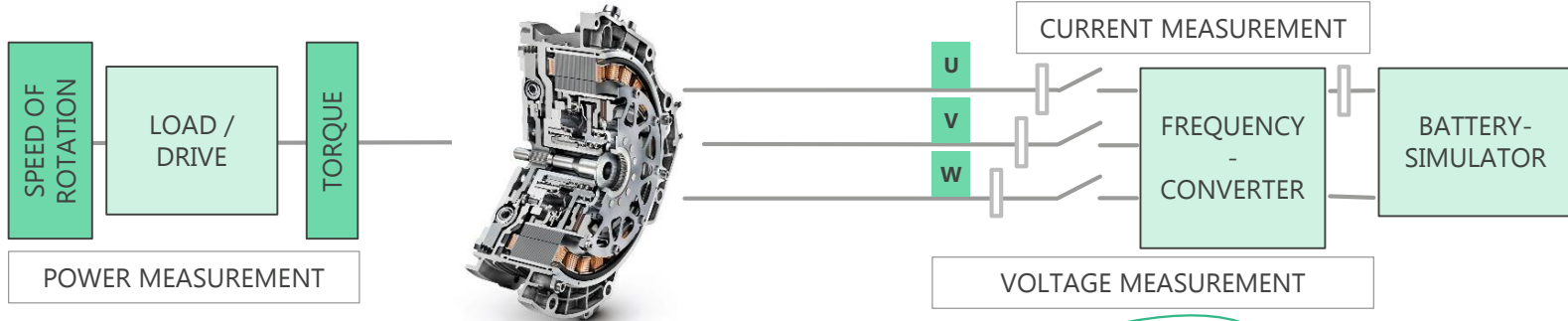
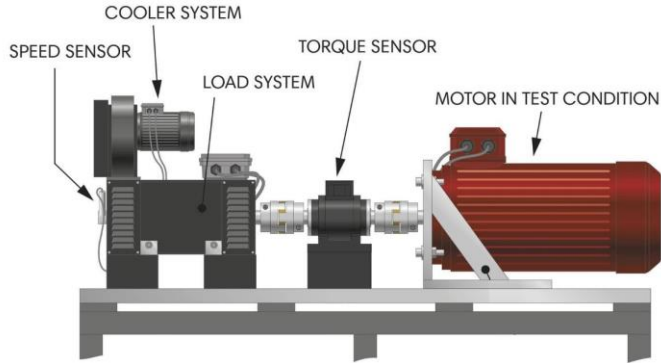
USB 3.0 | USB 2.0 and Gigabit Ethernet interface to PC

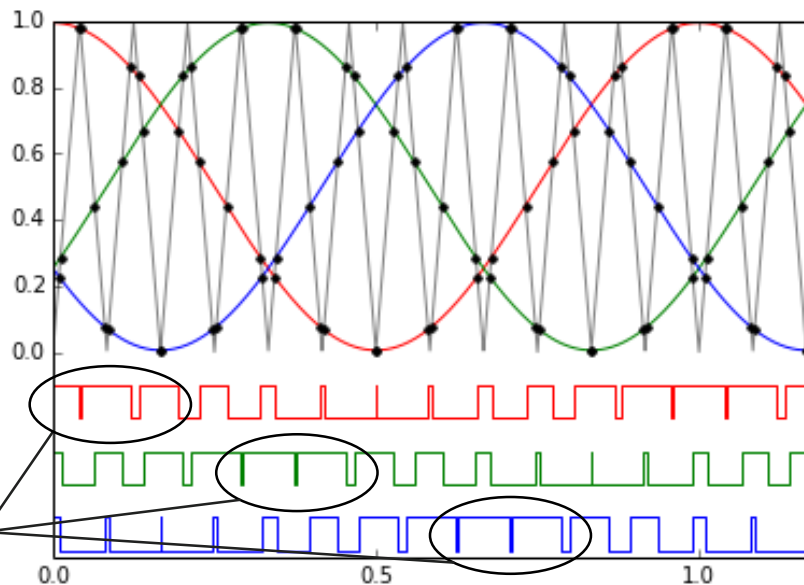
Synchronization interface for device cascading of multiple LTT24 devices

Digital I/O and synchronization interface extendable at any time



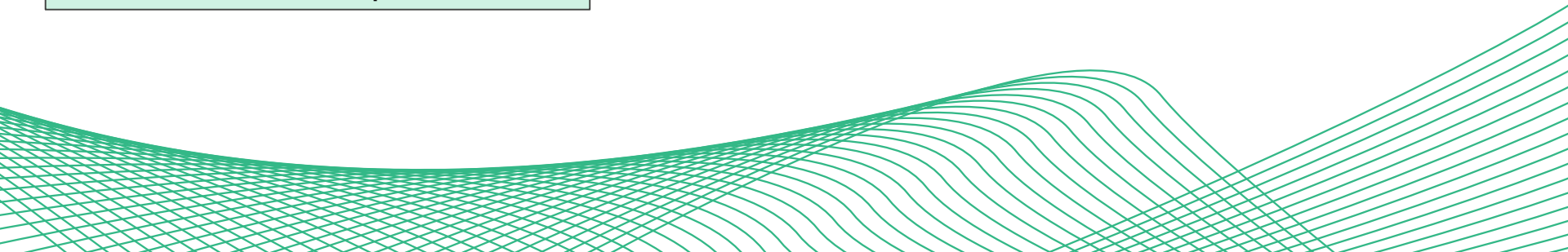






powerful
PWM-drive
signals

High frequency components:
0.3% resolution up to 2 MHz





LTT24: The future of electric motors

STANDARDS AND DIRECTIVES

Electric drives are conquering our daily lives: cordless screwdrivers, angle grinders, electric bikes and electric cars must function with maximum efficiency over the greatest possible load ranges. Test standards, such as the DIN IEC 60034-2-3, define the test requirements for determining the efficiency of such inverter-fed drives. The combination of 1.7 MHz bandwidth and highest accuracy guarantee performance testing in accordance with standards - better than 0.3%. The LTT24 is the solution you can rely on to support your test bench as it is the only device in the world with the bandwidth and accuracy you need.



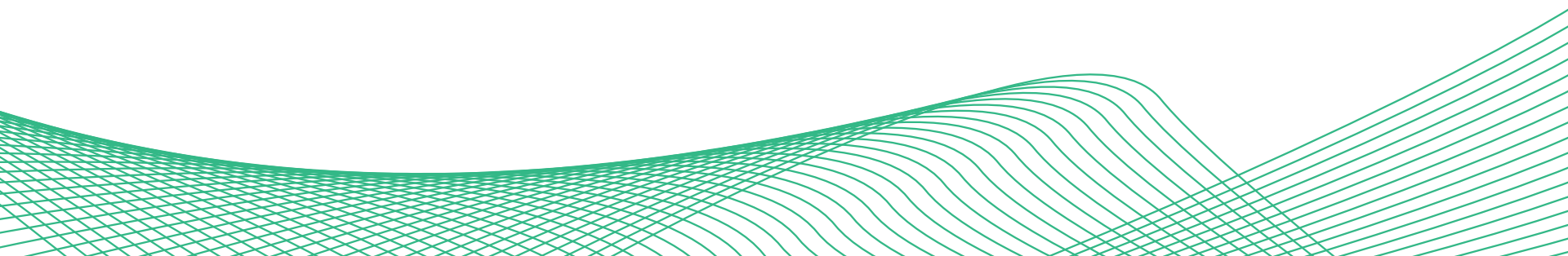
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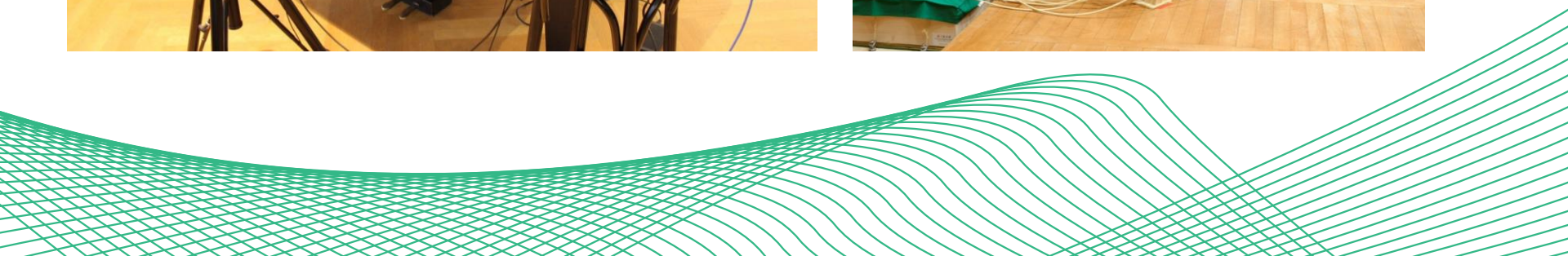
SOFTWARE

LTTpro: Control and visualization software

LTT2API: Library for integration into customer applications

Compatible with DASyLab, LabVIEW, Matlab, FlexPro, Famos etc.





HIGH SPEED MEASUREMENT TECHNOLOGY IN USE

- Pulse width modulation / PWM power measurement
- Preventive maintenance e.g. wear and tear
- Production monitoring, data monitoring
- Fatigue and crack detection
- Ballistics, mine protection tests
- Solar cells, observatories
- Generators, injectors
- transient recorders



EMC measurements
in rail traffic



Production
monitoring



Sensor
development



Tape drive
replacement



Liquid
metal flows

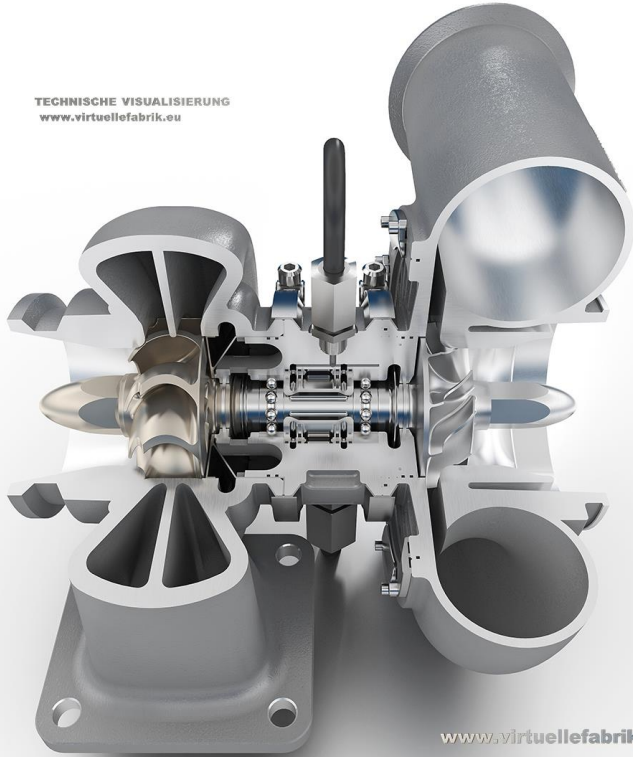


Electric
Motors

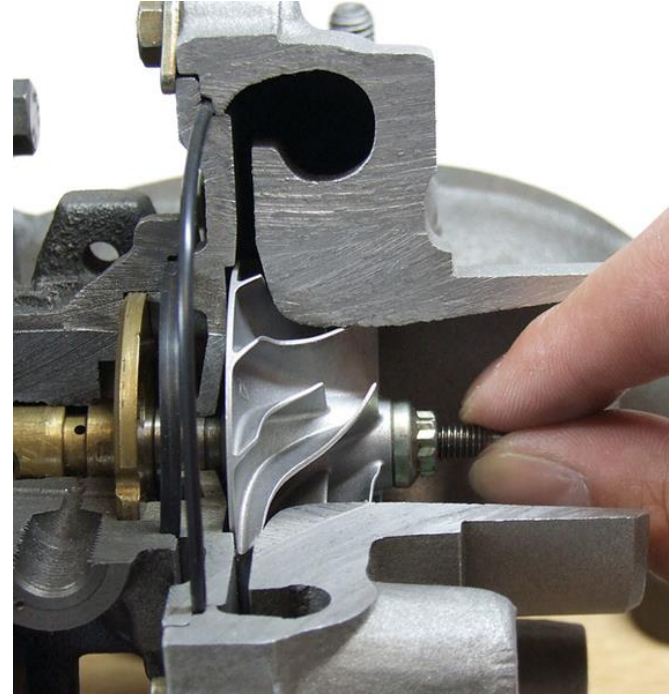


Research and
Development

TECHNISCHE VISUALISIERUNG
www.virtuellefabrik.eu



www.virtuellefabrik.eu

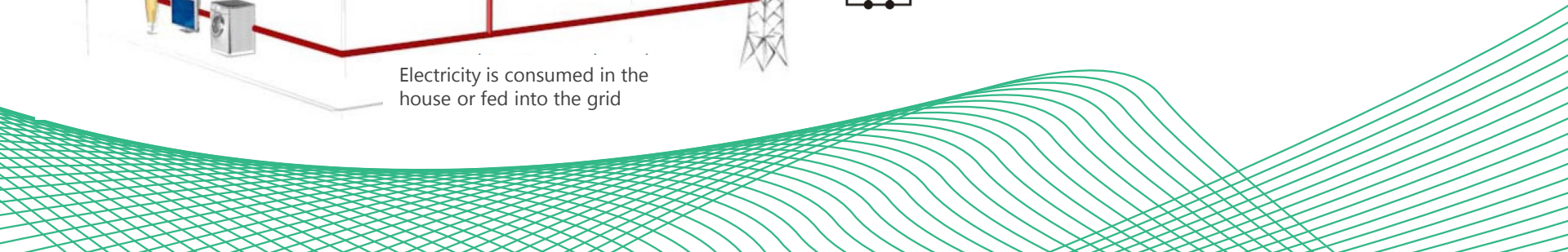
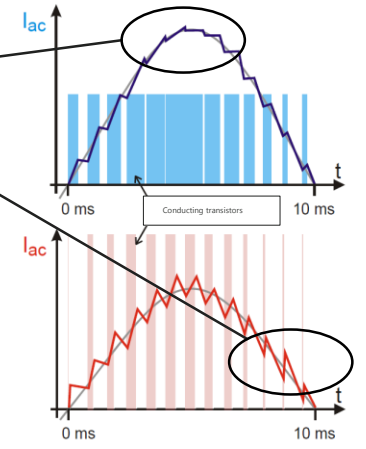
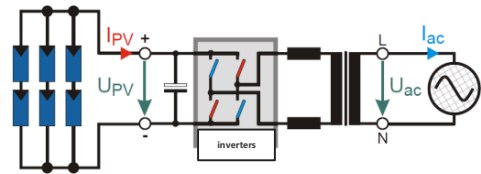
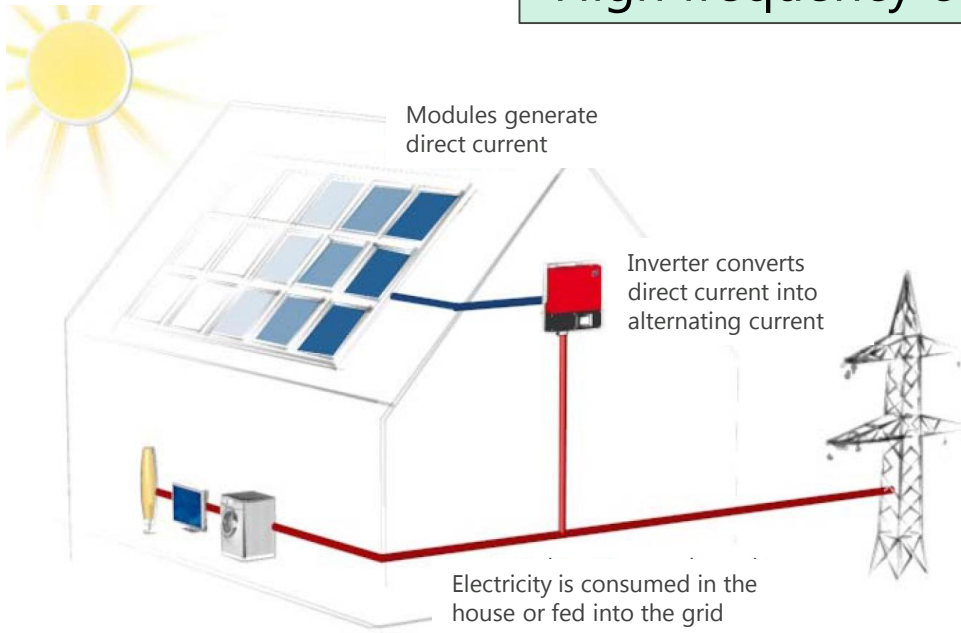


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HIGH PRECISION INPUTS AND OUTPUTS

for volts, current, charge, ICP®, strain gage, LVDT, resistance, also All-in-one
Sensor supply output: constant voltage – constant current – carrier frequency
Single-ended and differential-ended: AC or DC
Status LEDs for all channels

High frequency components





en an realen
mobilen

ts on real installations
nt system

DEHN

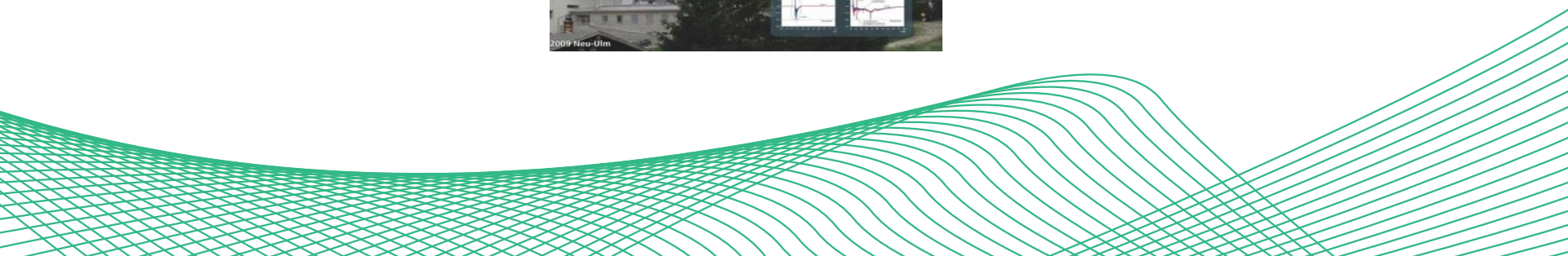
DEHN + SÖHNE

Übertragungsstrecke

Ergebnisse

- Vergleichsmessungen an Blitz-Messstation Gaisberg / Salzburg mit Blitzforschungsgroßanlage ALDIS
- Registrierung von über 130 Blitzereignissen (Juli 2007 – Mai 2009)

2009 Neu-Ulm



HIGH SPEED MEASUREMENT TECHNOLOGY IN USE

- Electric motor test benches
- Airbags, on-board electronics, turbochargers
- High-end music recordings
- Engine test benches
- Quality control, quality improvement
- drive development
- Mechanical and plant engineering
- structural analysis



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