

„Motion under Control“

Key factors for the successful implementation
of high precision drives and systems

Jan Braun

Erik van Hilten

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maxon motor

National Instruments

Your local partner

- Wim Doesburg – René Franke – Kees Remi
- Gerrit Stoels – Frank Heerdink
- Gerard Scholten – Matthijs Roorda
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- William Baars – Peter Engelbracht
- Arnod Busser – John van der Veen
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Your local partner

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- Gerrit Stoels – Frank Heerdink
- Gerard Scholten – Matthijs Roorda
salesteam maxon motor benelux
- Filip Langenaken – Bart de Rouck
- Julien Roland
salesteam National Instruments Belgium

Agenda

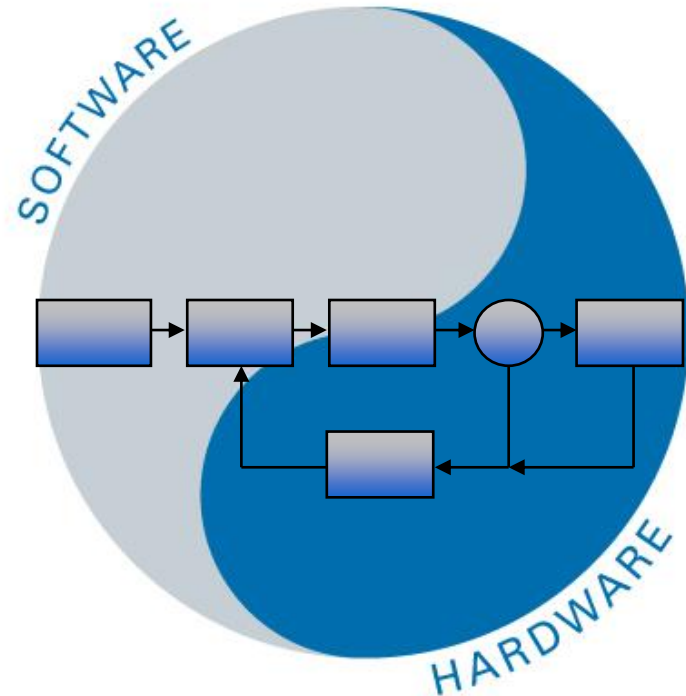
09.00 -09.30	Welcome and introduction
09.30 -10.00	Overview of drive and -systems
10.00 -10.45	Mechanics and motors
10.45 -11.15	Coffee break
11.15 -12.00	Motor data of dc motors
12.00 -12.20	Control Technology – feedback devices
12.20 -13.20	Lunch break
13.20 -14.20	Software development of powerful drive systems
14.20 -14.35	Coffee break
14.35 -16.00	Control Technology – motion controller and power amplifier
16.00 -16.30	Summary and final considerations

MOTIVATION

Demonstration of innovative technologies in the drive engineering

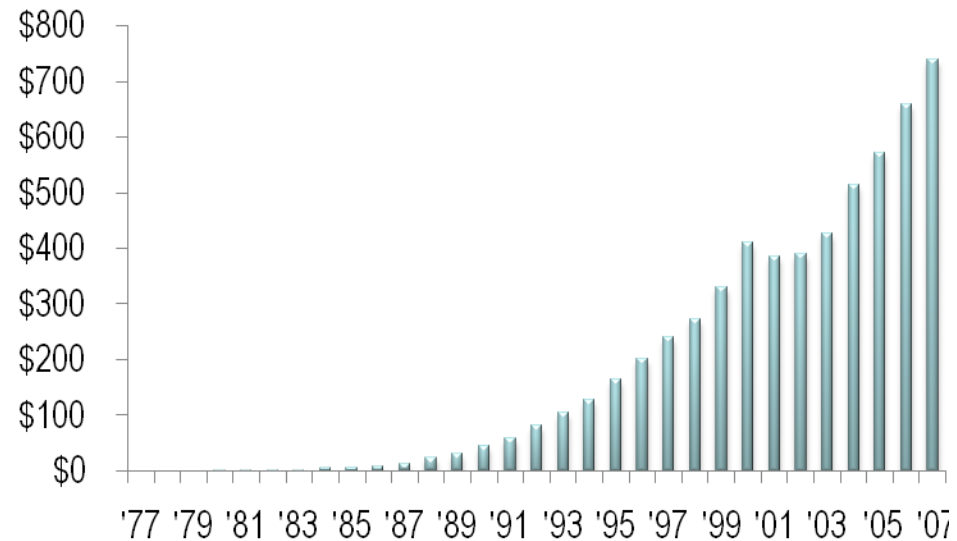
Combination of these innovative technologies of maxon motor ag and the concept of the virtual instruments of National Instruments

Training of engineers and users in contact with drive systems



National Instruments Profile

- Leader in Virtual Instrumentation, pioneer in Graphical System Design
- Significant investment in research and development: 16% of revenue in 2007
- \$740M Revenue in 2007
- More than 4,300 employees; operations in 40+ countries
- Fortune's 100 Best Companies to Work For Ninth Consecutive Year

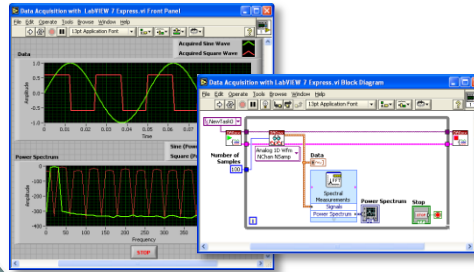


What National Instrument Does

Low-Cost Modular Measurement and Control Hardware



Productive Software Development Tools



Highly Integrated Systems Platforms



Used By Engineers and Scientists for Test, Design and Control



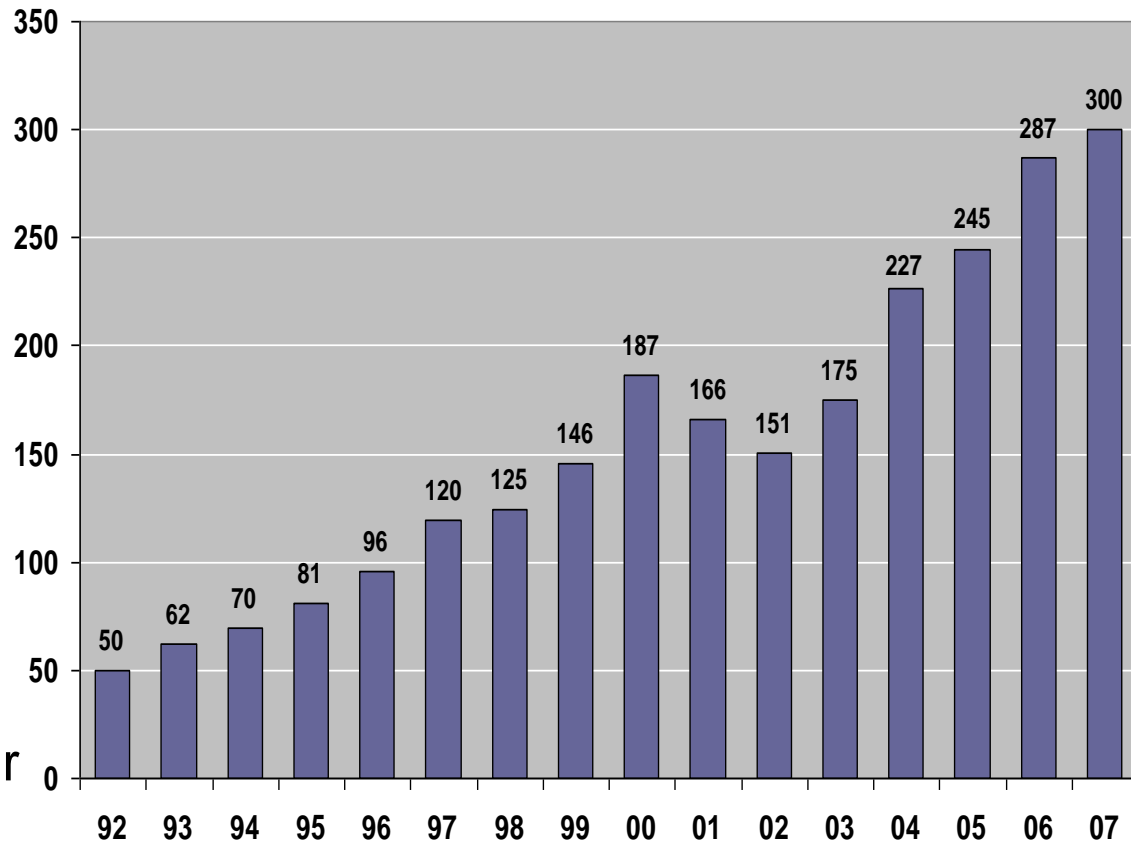
maxon motor

driven by precision

**NATIONAL
INSTRUMENTS**

Company profile maxon motor ag

- Family stock corporation
- Majority shareholder:
Dr. Karl-Walter Braun
- 1'608 employees worldwide
(1/1; January 2008),
940 of them in Sachseln
- Production area: 16'000 m²
in 3 countries (CH, DE, HU)
- Cash Flow > 15%
- Export: 80% of sales,
into 55 countries
- More than 40 trade fares per
year worldwide



maxon motor group – a leading provider of high precision drive systems



- **Components**

- DC and EC (brushless) fractional horsepower motors (up to 500W)
- Gears
- Feedback devices
- Control electronics
- High-tech ceramic components

- **Customer specific solutions**

We wish you a pleasant and
unforgettable day.

Please do not hesitate to ask
questions!!!