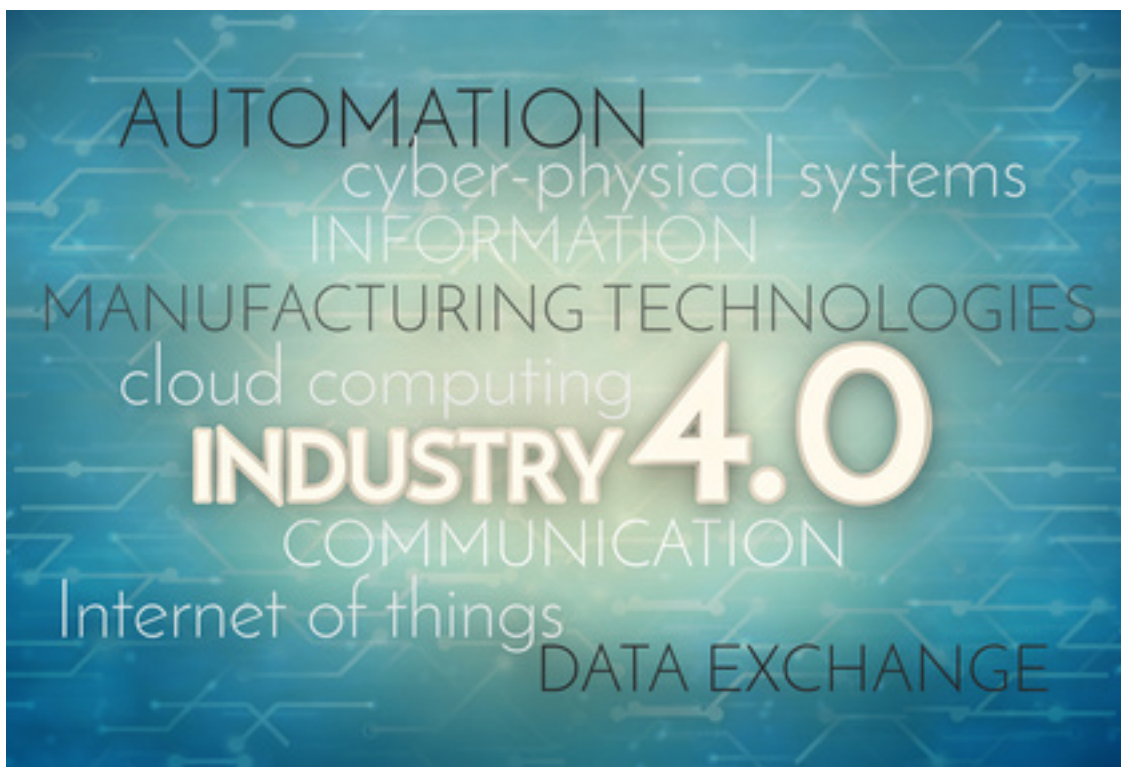


***The current process of the realization
of Industry 4.0 in machine automation
and its prospect
in the German machinery industry***



Highlights, table of contents, budget

***The current process of the realization
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- Highlights -

The structure of the realization of Industry 4.0 in the German machinery industry

This part 1 opens up the study as one cannot analyze a process fairly comprehensively, whose structures are not known good enough.

So the analysis identifies substantial structural components of the realization of Industry 4.0:

- The feature of Industry 4.0 that is the crucial one for the current realization as well as for the foreseeable future
- The demarcation of Industry 4.0 from the current predominant high automation
- The future development stages of Industry 4.0
- The development types of Industry 4.0 that can be expected
- How Industry 4.0 can meaningfully be divided for the machine-builder
- What Industry 4.0 means for the machine and which general sequences result from it for the machine-builder and its end-users
- The five medium-term sequences of Industry 4.0 for automation manufacturers
- The economic conditions for Industry 4.0 in machinery industry and which countertrend appears.

This structural analysis serves as base for the development of product and market strategies for automation manufacturers and machine-builders.

Focus on changes in all substantial automation areas

The study investigates

- eleven machine-related changes regarding machine automation toward Industry 4.0 (part 3, table of contents page 7 to 10).
- five machine-overall changes toward Industry 4.0 (part 4, table of contents page 11).

The study classifies all changes into five development stages regarding Industry 4.0 and determines them contentwise for everyone of the altogether 16 changes.

Machine-builders provided more than 500 statements, automation manufacturers may directly derive from the starting points for their product evolution toward Industry 4.0.

The degree of the realization of Industry 4.0 in the sectors as bench mark

For each of the ten sectors the study provides the percentage, which indicates the realization of Industry 4.0.

This percentage is immanently derived from the development stages of the changes and not results of an external, abstract scale.

So the ranking of the sectors regarding the realization of Industry 4.0 provides the balance of technological changes and customer benefits.

Out of this automation manufacturers may directly derive the bench mark he will use for his product evolution. (Part 2)

Cutting-edge demand trends

You will use cutting-edge demand trends based on a period of February/April 2016. The demand trends are representative as they are based on detailed denominations of 23% of the scarcely 650 machine-builders with 100 and more employees in the 10 automation-relevant sectors of the German machinery industry (148 companies).

Exclusive personal interviews by telephone or face to face were conducted.

The interviewees are composed of

- 11% companies with 1,000 and more employees
- 16% companies with 500 and under 1,000 employees
- 27% companies with 250 and under 500 employees
- 46% companies between 100 and less than 250 employees.

The ten sectors are building/glass/ceramic machines, printing/paper-handling machines, conveyor, rubber and plastics machines, wood processing machines, food processing machines, robotics and automation, textile machines, packaging machines and machine tools.

The study does not talk about Industry 4.0 but with the machine-builders

This study does not talk about Industry 4.0 but with the machine-builders

- what the practical relevance of Industry 4.0 constitutes for machine automation
- which changes in this direction are to be undertaken
- how these changes are to be arranged in the total process to Industry 4.0
- which role the end-users are playing regarding the realization of Industry 4.0
- which business models for the machine-builders and their end-users appear.

So this study provides substantial cornerstones for product and market strategies that want to actively manage the process of the realization of Industry 4.0 in the machinery industry.

Reports, based on the study, published in the Quest Trend Magazine

Please find the main heading Industry 4.0 on <http://www.quest-trendmagazine.com/en/industry-40.html>

There you will find reports based on the study:

- The development stages of the networking of machines toward Industry 4.0
- To which extent machine-builders acknowledge the relevance of Industry 4.0 in practice

The approach of the study presents Thomas Quest in an interview, who distinguishes this approach from other studies.

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Note: Industry 4.0 is partly abbreviated as I4 and cyber-physical system as CPS

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- Budget -

**The current process of the realization of Industry 4.0
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- 210 pages, 65 figures, 1 table, appendix 6 tables
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