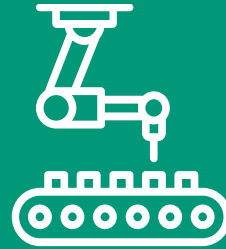


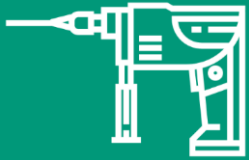
Fraunhofer-Institute for Production Systems and Design Technology (IPK)

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We accompany the production process all the way:
From first idea to final product and back.
In the scope of machines, factories and organizations.

SCOPES WE ARE WORKING IN



- How **fast** and **accurate** is the machine able to manufacture parts?
- How **efficient** (energy, materials) is the machine?
- Are there **better ways to manufacture** a part?
- When is the **next maintenance** necessary?



- How can **productivity** be optimized?
- How can machines **be arranged** to be self organized?
- How can processes be **automized**?
- How do workmen **collaborate with robots**?



- How to handle **IP** when employees leave?
- How can **organizational processes** be recognized and optimized?
- How does one **manage** multiple facilities?
- How can **Industry 4.0** improve my business model?

KEY FIELDS OF ACTION AND RESEARCH CONCERNING INDUSTRY 4.0

Condition
Monitoring &
Predictive
Maintenance



Retro-
fitting

Bench-
marking



Computer Vision
with Machine
Learning

Robot-
Collaboration



Digital
Twin



Maturity-
Checks



Process-
Optimization

VR-Remote
Collaboration



INDUSTRY 4.0 KIT FOR SME



Aim

With the help of workshops, needs of customer will be determined, pilot plants will be digitalised and the benefit of digital Data will be shown



Technologies

- Sensor, Actuators
- Value-added services, Analytics
- Shopfloor Management System
- IoT Edge Cloud



Solution

- 3-day Workshop concept



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HOW TO COLLABORATE WITH US



- Trainings
- Qualifications
- Labtours



- Licensing
- Talks with Experts
- Transfer of Knowledge and Technology



- Contracted Research
- Project Cooperations
- Implementation and Testing of Solutions

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