Schaeffler Industrial Division – Industrial Automation
Hanover Fair Field Trip

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Industrial Division – Industrial Automation market cluster

1. Robotics – Where we play & How we win

2. Food, Beverage & Packaging – Where we play & How we win
Major industrial trends boost demand for robots across many applications

**Trends in Robotics**
- **Growth potential for robotic automation in most industries**

**Robot density**
(units installed per 10k employees)

- **Automation catch-up** for industries with mostly manual value creation and SMEs with need for flexibility.
- **Nearshoring** requires automated solutions to gain competitiveness.
- **Simplified programming** enabling new widespread applications for robots.

**Selection of application examples**

- **Cobot**
  - Enabling faster movement for cobots

- **Medical Robot**
  - Improved sensitivity for medical robots and other applications

- **Exo-Skeleton**
  - Compact high performance solutions for wearables

**Schaeffler develops solutions to open up new applications together with our customers**
1 Robotics – Where we play & How we win

Schaeffler Robotics Product Portfolio offers a full range of solutions

Cobot Solutions
- Speed Reducer high torque and standard torque
- Speed Reducer with integrated Torque-Sensor
- Main Bearing
- Shaft Bearings
- Joint Motor
- Range Extender

Industrial Robot Solutions
- Gearbox Sub-assemblies
- Main Bearings
- Fully enclosed Gearboxes
- Shaft Bearings
- Solutions for the 7th axis

Payload
- <1kg
- 15-25kg
- >100kg
Industrial Division – Industrial Automation market cluster

1. Robotics – Where we play & How we win

2. Food, Beverage & Packaging – Where we play & How we win
Schaeffler solutions enable a sustainable, safe and successful food production

Trends in Food, Beverage and Packaging Industry

- Growing population and urbanization lead to more food demand

![Population growth graph](source: Statista 2020)

- Growing online shopping and convenience food market
- Need for hygienic, clean and automated processing
- Save resources by clean and sustainable food industry
- Uncertainties in the economic systems strengthen the local production

Extract of application examples

- Availability of wide product portfolio for sustainable, clean food production
- Development partnership to meet official or religious regulations like kosher, halal and NSF-H1
- Sealing concepts/materials for resistance to detergents & foodstuff under all conditions

Close relationships with customers to understand needs and make our solutions and services available short term
Schaeffler delivers tangible benefits to food, beverage & packaging industrial customers

Reduce CO2 footprint of production plants, minimize operating costs and save resources

- Direct Drive Motor
- Ball Monorails

Increase plant availability through system solutions and smart condition-based maintenance

- Linear actuators
- Smart lubrication OPTIME

Efficient container production filling line

Automated cookie processing and baking line

Transport systems for clean and safe labelling & packaging

Produce efficient and clean with high product and process reliability

- Resistance and contamination protection by Food Program FD
- Deep grooved ball bearing FD
- Housing units series FD
- Solid lubricant LUBTEC
- Sealings & coatings

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