



Schaeffler Industrial Division – Industrial Automation Hanover Fair Field Trip

June 1, 2022

We pioneer motion

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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

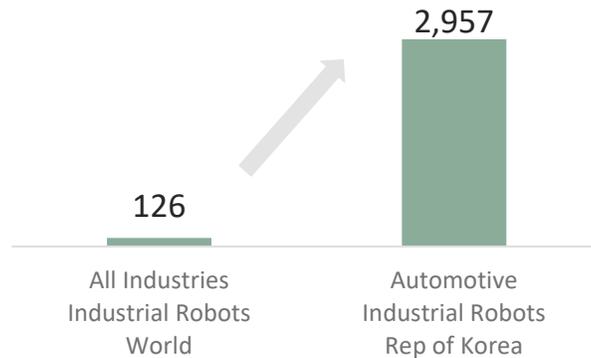
Major industrial trends boost demand for robots across many applications

Trends in Robotics

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

Robot density

(units installed per 10k employees)



Source: IFR 2022

- **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

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



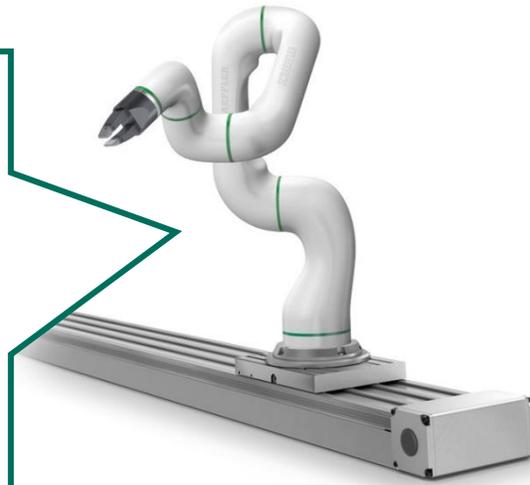
Main Bearing



Shaft Bearings



Joint Motor



Range Extender



Industrial Robot Solutions

Gearbox Sub-assemblies



Main Bearings



Fully enclosed Gearboxes



Shaft Bearings



Solutions for the 7th axis



<1kg

15-25kg

Payload

>100kg

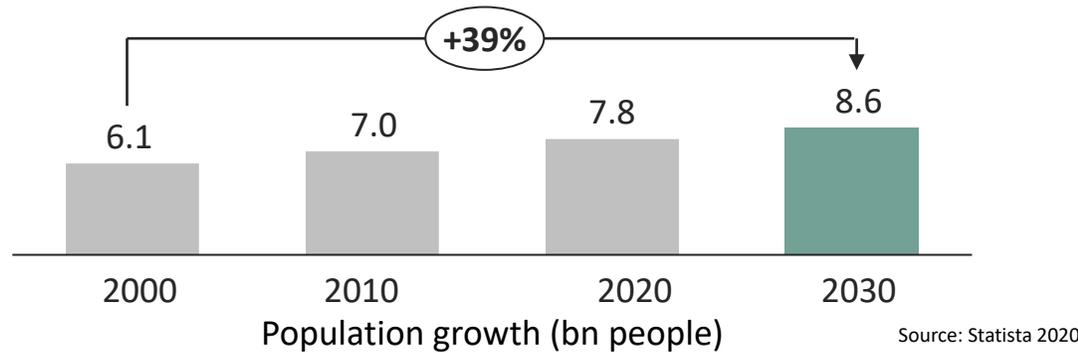
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Schaeffler solutions enable a sustainable, safe and successful food production

Trends in Food, Beverage and Packaging Industry

- Growing population and urbanization lead to more food demand



- 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**

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 LUBTECT**



▶ **Sealings & coatings**

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



▶ **Linear actuators**



▶ **Smart lubrication OPTIME**