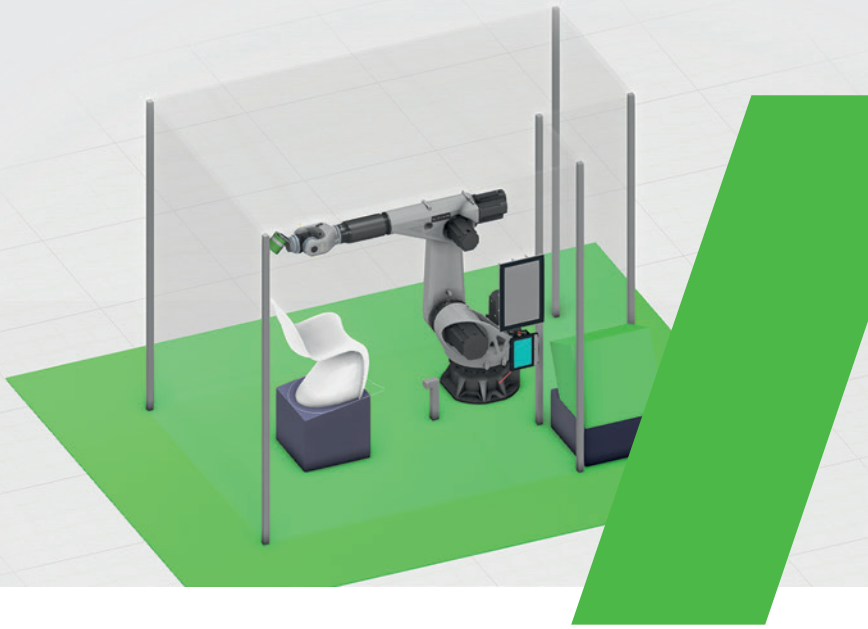
Robot Demo at the SPS 2022

Perfect Interplay of Process and Robotics



Integrated process solutions with KEBA robotics

Handling or assembly:
Dynamic, precise movements in narrow workspaces, complex 3D movements
Real-world applications: Pick & place, assembly, bolting, spot bonding etc.

Path process:
Fast motion with constant velocity along a complex geometry
Real-world applications: Welding, bonding & sealing, deburring, inspecting/measuring, coating

Surface processing:
Fast, precise motion along 3D surfaces with difficult geometry
Real-world applications: Painting, cleaning, polishing, coating,
3D inspections, 3D measurements

KEBA ROBOTICS DEMO
Hall 7, Booth 470

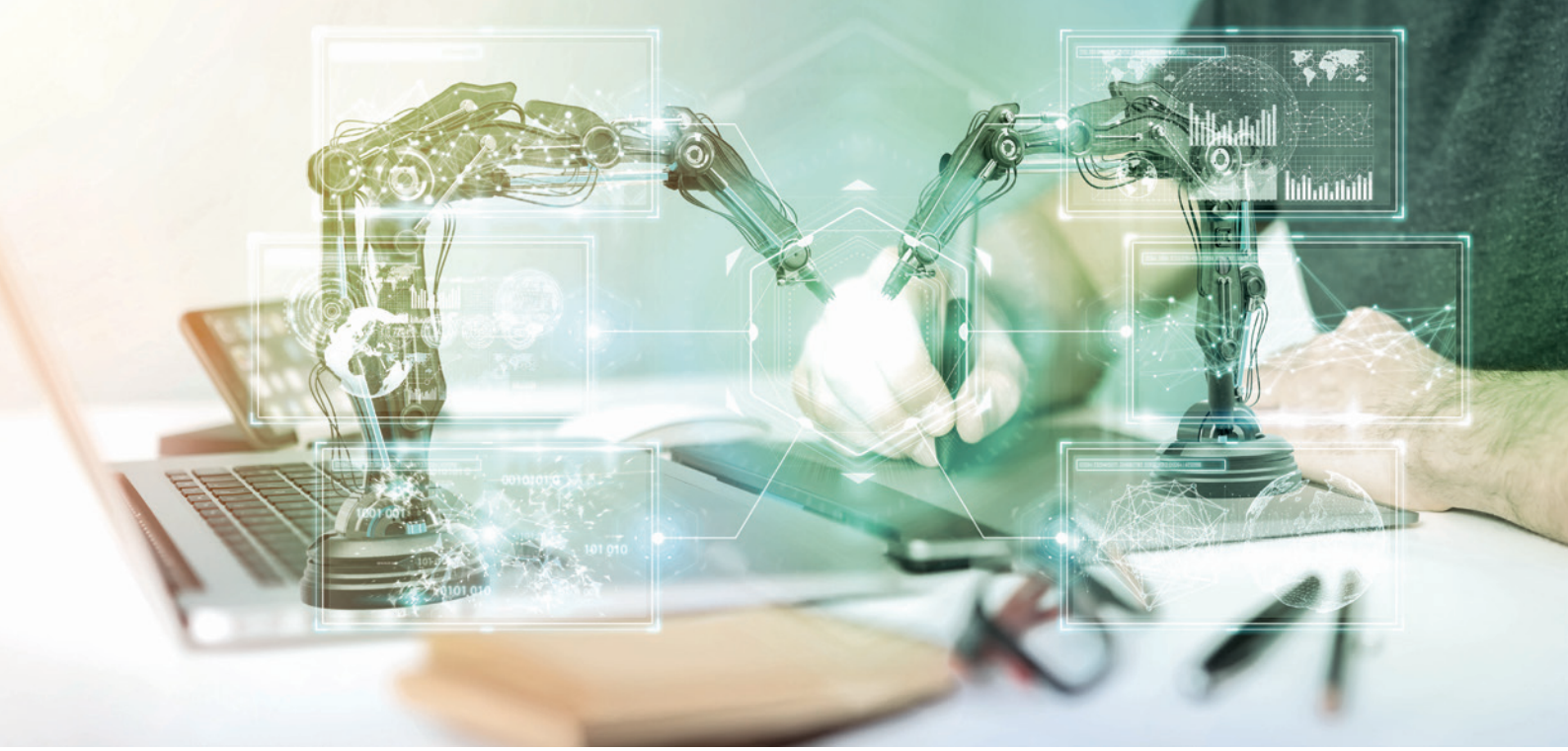
Challenges for machine and plant manufacturers with process know-how

Looking for end-to-end systems: Machine and plant manufacturers need solutions that are flexible, future-proof and easy to operate – one way to achieve this is through robotics.

// **The ideal scenario:** Core processes, robotics and the overall machine or plant control form a harmonious unit together – in their functionality as well as in their operation and data management

// **Time is money:** Engineering processes must be reliable, low-risk, fast and efficient.
Digital support increases the planning security and efficiency of implementations.

// **Limited integration capability:** When using standard controllers for industrial robots, the integration of core technology often reaches its limits. This is detrimental to performance and usability.



Kemro X Robotics
Highlights of KEBA's robotics solution

Process integration: Motion and process in a single system – easy and continuous access

Continuous data access to the process, robot and overall control solution – uniform access, synchronous data

Process & robotics are one: Easy creation and adaptation of integrated part programs

Integrated load monitoring of robot gearing: Real-time analysis and evaluation of total gear load

Digital twin: Ability to accurately predict overall behavior on the computer supports optimization – and thus efficient, parallel project realization

Safety in action: Safe robotics even in narrow spaces – robots integrated in the smallest space

KEBA Benefits Overview

// Integrated automation system for process, robotics and machines

// Powerful robotics functionality for a broad range of applications

// Open architecture in control, operation and robotics for a continuous integration of the core technology

// Certified, flexible-use safety solution for machine and robot

// Scalable and complete modular automation system including hardware and software (controllers, IOs, drive technology, HMIs)

// Know-how and support for the integration of robots into unique solutions

Why the Vitra Panton chair?
This designer chair is the perfect example for demonstrating the outstanding flexibility of the precise robot motion control. The unusual shape of the Panton chair includes many free-from surfaces, indents, curves and recesses.
Features
// Kemro X Robotics // KeDrive D3 // KeTop T150 R // KeTop AP521 // KeSafe // autonox articc6 with Nabtesco gearboxes

In cooperation with:

Nabtesco High Precision Gears

autonox Robotics

KEBA
Automation by innovation.