ROBOTstar VII concept by Reis Robotics GmbH & Co. KG

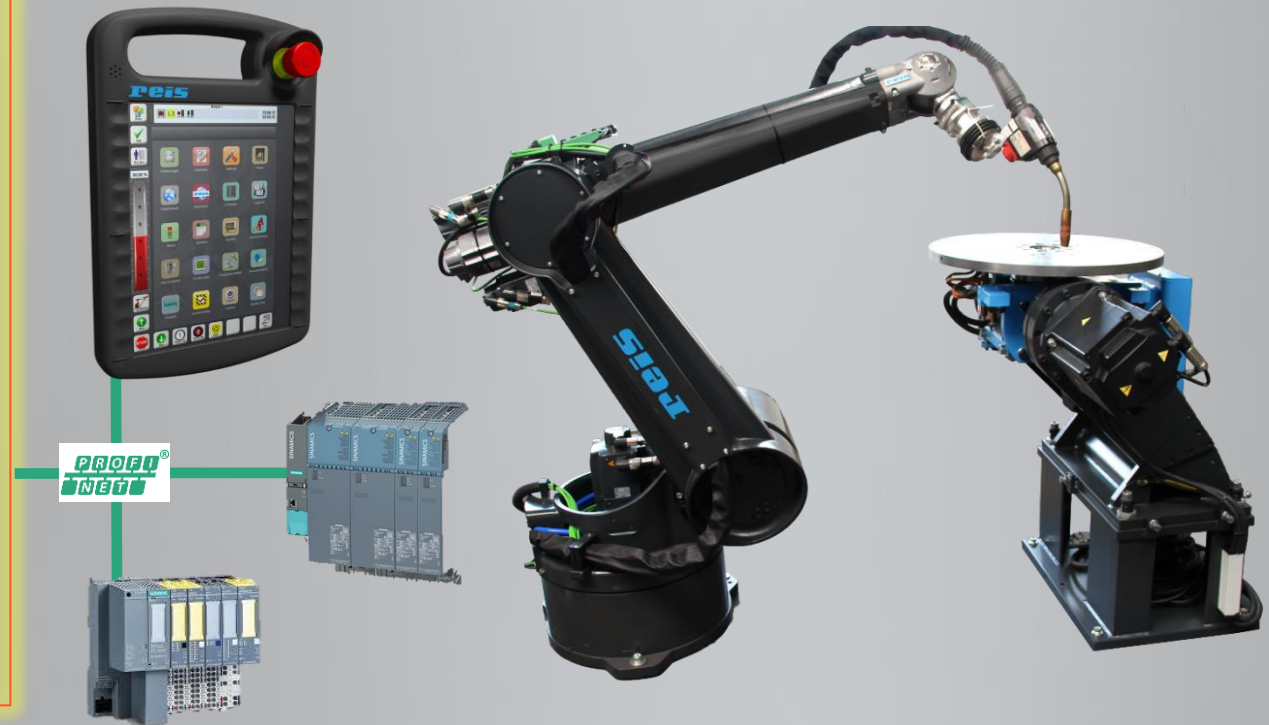reisPad

ROBOTstar VII

SIMATIC
CPU 1508S-F

Safe
Kinematics

WinCC Unified

Customer Linux App

IPC BX39A with
CP 1625 (Controller)

Real-Time LINUX

debian V11

PROFINET

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ROBOTstar VII concept from Reis Robotics GmbH & Co. KG - Advantages

With the successful development of the ROBOTstar VII controller, Reis Robotics strengthens its position as a leading company in the field of robot systems and offers its customers the following advantages:

- Integrated Siemens F-PLC

- Safety technology complies with DIN EN ISO 10218-1-2

- Multi-voltage capable (DC/AC supply)

- Integrated energy recovery

- Consistent simulation possible

- Possibility of also controlling robots and automation technologies from third-party manufacturers and connected via Profinet IRT

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- The ROBOTStar VII robot controller was integrated on a SIMATIC IPC, which communicates synchronously with a secure SIMATIC 1508S-F Soft PLC via Realtime Industrial Backbone (RIB) as part of SIMATIC Industrial OS (Linux-based). The drive technology used consists of the SINAMICS S120 multi-axis inverter system in combination with SIMOTICS S-1FK2 servomotors.

- In addition to the integrated standard safety PLC, a new feature of this concept is the use of Safe Kinematics for the safe motion control of different kinematics with up to 12 interpolating axes.

- This solution enables modular and flexible machine concepts with high dynamics and accuracy. It offers high productivity thanks to higher cycle rates and is also energy-efficient thanks to integrated energy recovery.

- This innovative concept enables the integration of robotics, SIMATIC PLC, safety functions (Safety and Safe Kinematics), motion control, HMI and customer-specific Linux-based applications on a single system platform for the first time.

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