ArtiMinds Fact Sheet

ARTIMINDS
We simplify robot deployment

ArtiMinds Robot Programming Suite (RPS)

PLANNING & SIMULATION
Offline programming with collision-free path planning, setup of safety zones, accessibility analysis and cycle time estimation

PROGRAMMING OF COMPLEX PROGRAM LOGIC
Communication with PLC and other external systems, logical programming beyond simple path planning

CAD2PATH
Automatic generation of surface accurate paths for robots based on CAD data

FORCE & VISION CONTROLLED ROBOT PROGRAMMING
Sensitive processes, handling of non-rigid materials and sensitive parts, handling of process deviations & tolerances

Example for Force Sensitive Polishing

ArtiMinds Learning & Analytics for Robots (LAR)

VISUALIZATION & ANALYSIS
Process oriented past, present and future analysis, e.g. predictive maintenance, detection of new batches, tool wear and tear, etc.

SELF-OPTIMIZATION
Self-learning methods for optimizing the parameters of the robot program, e.g. for minimizing tolerance compensation, reducing cycle time & teach point optimization

PROCESS MONITORING
Display of standard and process-specific parameters; creation of monitoring systems that observe occurring forces or movements of the robot and that inform you of errors

DATA STORAGE & SYSTEM INTEGRATION
Long-term storage of process data in your own local database; integration into higher-level MES systems

Data Analytics with ArtiMinds LAR

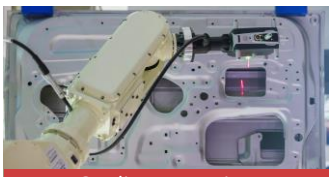
APPLICATIONS*

Added Value of ArtiMinds

Multitool for flexible & low-cost automation of various applications, e.g.:


Mechanical Assembly


Electronics Assembly


Quality Inspection & Surface Finishing

Seamlessly implementable in software tool chains including digital backend (e.g. Siemens Teamcenter & Process Simulate)

Strategic Partnership ArtiMinds & Siemens

SUPPORTED HARDWARE*

Industrial & Collaborative Robots

ABB · FANUC · mecademic · DENSO · KUKA · UNIVERSAL ROBOTS

Force/Torque Sensors & Gripper Systems

Robotiq · Weiss Robotics · OnRobot · Schunk · ATI · Zimmer

Camera Systems

Cognex · Halcon · SensoPart · Keyence · ifm · SICK

Interfaces

Digital I/O · PROFINET · EtherCAT · IO-Link + more

* excerpt