



Stronger, faster & cost effective:
Transform the way you 3D print
AMCell_small



AMCell_small: pushing boundaries in industrial manufacturing

In additive manufacturing, also known as 3D printing, components of all different shapes, sizes and structures are manufactured by the precise application of meltable material in layers. For the fast, precise and cost efficient production of components or small cycles, the **AMCell_small** series delivers. The mobile training cell is perfectly suited for entry into the world of 3D printing. The complete package is aimed especially at academia: schools, universities and company training facilities.

AMCell_small

- Preconfigured
- Space saving
- Ai Build UI & software
- Industrial extruder
- KR AGILUS industrial robot
- Suitable for a variety of 3D printing tasks/applications
- POA

The AMCell_small package: created with the **KR AGILUS**, for a perfectly coordinated and preconfigured system. The AGILUS, our compact six-axis robot is designed for particularly high working speeds. It's reach and payload transforms the small robot into a precision artist. Together with industry leading polymer extrusion end-of-arm tooling, and **AiSync** software from partners **Ai Build**, the AMCell_small is as versatile as it is cost efficient, enabling the delivery of complex geometries whilst providing a swift return on investment.



The KR 10 AGILUS achieves maximum repeatability and continuous precision.

Features of the AMCell_small package:

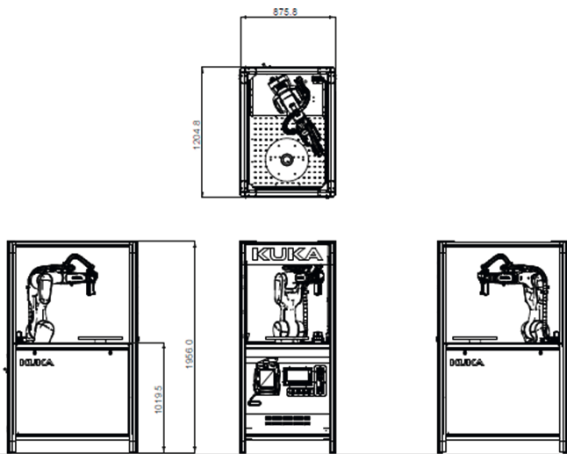
- Modular design for quick integration, installation & ease of use
- Perfectly matched extruder/hardware components
- Powerful 3D printing interface from Ai Build
- Based upon the popular **ready2_educate** cell footprint
- Space saving; fits through standard doorways & in typical passenger elevators

The package comprises:

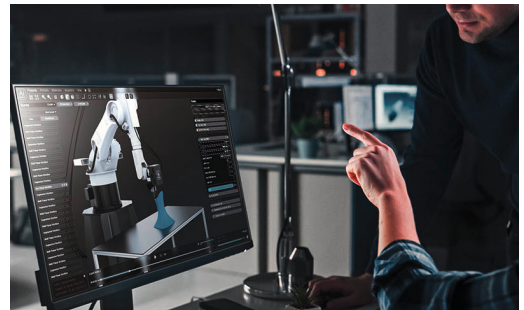
- Fully compliant mobile cell
- KR AGILUS six axis robot
- KUKA controller, smart pad, cables and software
- Industry leading end-of-arm extruder & periphery
- AiSync software & user interface from Ai Build

KR 10 AGILUS	KR10 R900/2
Max. Reach	901 mm
Maximum payload	11.3 kg
Pose repeatability	±0,02 mm
No. of axes	6
Installation position (external of cell)	Floor, ceiling, wall, angle
Robot footprint	208 mm x 208 mm
Weight (robot only exc. controller etc.)	55 kg
Controller	KR C5 micro/KR C4 compact

Product matrix overview	AMCell_small
Cell housing	541 mm
Power supply	AC 1x 200 V - 240 V
Compressed air	6 - 8 bar
Weight	390 kg
Height	1860 mm
Width	1200 mm
Depth	900 mm / 880 mm without
Vision	Add-on option



AiSync	Software & UI
Hardware requirements	PC or Tablet
Display size	Minimum 1920x1080
Supported input files	.obj, .stl, .step
Supported OS	Windows, Mac or Linux
Supported Browser	Google Chrome
Included in the AMCell_small	KUKA Postprocessor; KUKA digital twin; Multi-axis slicing; Support-free toolpaths; Collision detection; Thermal simulation; Visual programming
Add-on options	Real-time monitoring Fault detection



Clients report AiSync™ building successful toolpaths 86% quicker, with failed builds decreased by 65%, parts 3x stronger and a 90% efficiency gain in overall build time.

- Everything from one source:** Manufacturing cell with suitable process package, UI/software and extruder.
- Ready for immediate use:** Fast delivery thanks to pre-assembled components and easy commissioning.
- Maximum flexibility:** Modular concept for seamless integration into existing production environments.

www.kuka.com/en-gb/products/process-technologies/3d-printing

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