PHENEMACHINE WORKCELL

Hands-free Petri dish imaging, on your schedule.

An enclosed benchtop workcell with an industrial-grade cobot arm picks plates from shelf racks, images them at a 20 MP RGB station and returns them, in any order. The included MCP server and CLI give your scripts and AI agents real-time access to images and instrument controls.



Earlier reference platform with a 700 mm-reach arm and two racks. Base systems include five racks; appearance may vary.

WORKCELL 440
$24,900
UFactory Lite 6 · 440 mm reach · **50 plates**

WORKCELL 700
$29,900
UFactory xArm 5 · 700 mm reach · **100 plates**

Included in every base system

Arm repeatability	±0.5 mm (440) · ±0.1 mm (700)
Joint drives	Brushless servo motors, harmonic reducers
Storage	5 semicircular shelf racks, 10 or 20 plates each
Dishes	100 mm round or square; other sizes by quote
Imaging	20 MP Basler RGB camera with backlight
Orientation	Flat or angled plate presentation
Computer	Linux PC with 1 TB local storage
Software	Scheduling & imaging GUI, CLI, MCP server
Safety	Enclosure, door interlock, safety controller
Warranty	1 year included

Options

+$3,000 / +$5,000	Double shelf expansion to 100 or 200 plates
+$5,000	Additional 10× optical zoom imaging station
+$2,000	Open front with safety light curtain
+$2,000	Mobile cart
By quote	Image analysis, trained models, custom software

Prices are base systems in USD before shipping, installation and taxes. Installation requires site review. Analysis packages are quoted separately.

Agent-ready. Connect scripts, lab software or AI agents through the included MCP server and CLI, with no proprietary AI subscription.

REQUEST A QUOTE
phenotyper.com/inquire

DETAILS & VIDEO
phenotyper.com/workcell

EMAIL
info@agenticforgelabs.com

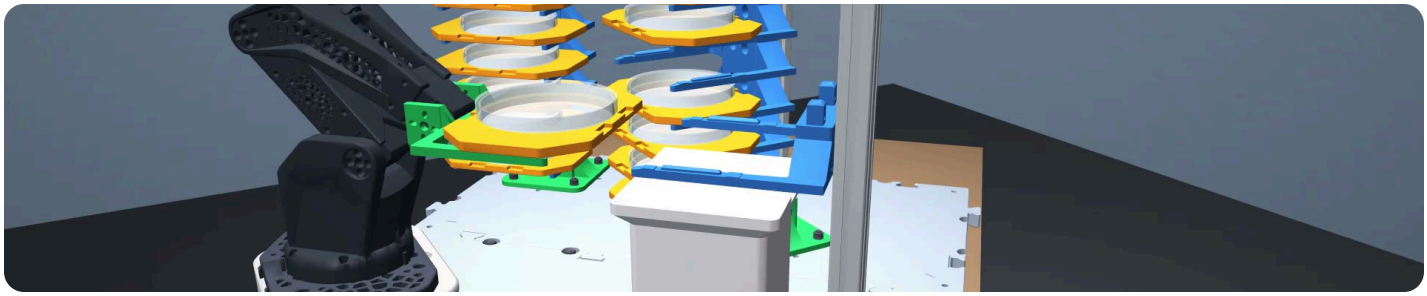
SCAN FOR DETAILS

From the makers of **RhizoVision Explorer**, the open-source root image analysis software. Phenotyper is a brand of AgenticForge Labs. Information as of November 2026; specifications and prices subject to change.

PHENEMACHINE OPENKIT

Every lab can learn robotics and lab automation.

A research-grade desktop imaging robot on the open SO-ARM102 arm. It carries any of 20 Petri dishes, from any shelf, in any order, to a USB camera over a backlight. An MCP server gives AI agents native control; an SDK supports custom programs.



Rendering from a physics simulation of the OpenKit design. Hardware and appearance may change.

KIT
$1,500
All parts with full build instructions

ASSEMBLED
$2,300
Built and set up; connect your computer

WITH COMPUTER
$3,300
Assembled, with OpenKit software ready

What's in the kit

Robot arm	SO-ARM102, upgraded serial-bus servos
Repeatability	About ±2 mm
Storage	2 ten-shelf racks · 20 round 100 mm dishes
Included dishes	20 CELLTREAT 100 × 15 mm dishes
Imaging	USB camera over a backlit imaging dock
Software	MCP server, SDK, validated movements only
Open source	Design on GitHub; software soon

Built for plate-based biology

- Colony forming units
- Bacterial culture growth
- Seed germination
- Inhibition assays
- Fungal culture growth
- Tissue transformation

Built for learning, teaching and pilot automation, not industrial duty cycles; servo motors are replaceable wear parts. Prices in USD, subject to change.

Which system fits your lab?

	OpenKit	Workcell 440	Workcell 700
From	$1,500	$24,900	$29,900
Plates	20	50 (to 100)	100 (to 200)
Repeatability	About ±2 mm	±0.5 mm	±0.1 mm
Best for	Learning & pilots	Routine imaging	Higher capacity

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