

ACR-1 — LEGS FOR WHERE WHEELS STOP

RESEARCH PROGRAM — NOT A PRODUCT

Construction has terrain no wheeled robot can serve: stairwells, debris fields, slopes, unfinished floors. ACR-1 is AtaForge's quadruped research platform aimed at exactly that ground — pursued with a simulation-first discipline that spends money on hardware only after the evidence earns it.

TARGET CAPABILITIES

- › **Extreme-terrain locomotion** — stairs, rubble, gaps, and surfaces that change from day to day.
- › **Light payload missions** — inspection, small-material delivery, and sensing in places wheeled platforms cannot reach.
- › **Shared platform** — ACR-1 runs the same fleet, tasking, and safety software stack as the M200 Construction Mule, so every capability it gains plugs into the same site workflow.

SIMULATION-FIRST METHODOLOGY

[01]
TRAIN

Locomotion skills are trained in physics simulation across curriculum stages of increasing difficulty.

[02]
CROSS-CHECK

Results are verified in an independent second simulator to catch simulation-specific artifacts.

[03]
GATE

Hardware is considered only after measured milestones pass — never on enthusiasm.



CONCEPT RENDERING — RESEARCH PROGRAM

Clearly labeled research. ACR-1 is a research program: it has no payload promises, no delivery dates, and no availability claims. Every result it produces is simulation evidence, labeled as such. If and when the program graduates to hardware, that decision will be made on measured milestones — the same evidence-first rule the whole company runs on.