



ATP MOBILE LAB + ATP CONNECT

The classroom, reimagined.

Mobile laboratories, AI tutors and hands-on experimentation — combined into one scalable platform. No construction. No permits. The lab arrives, and science starts on day one.

THE SOLUTION

One integrated system for hands-on STEM education

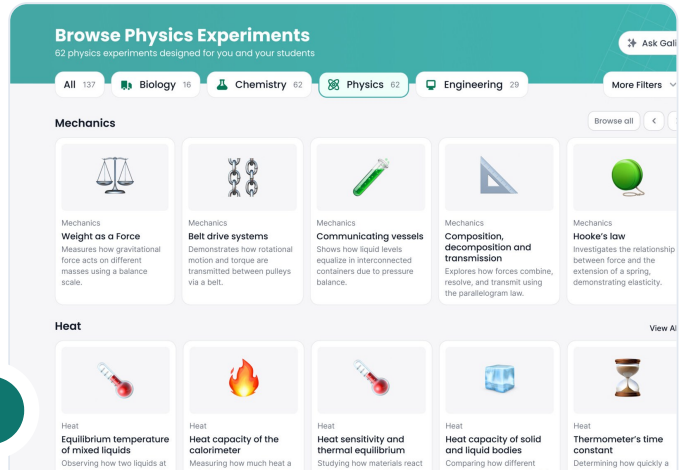
Schools everywhere face the same two barriers: the cost of laboratory infrastructure and the shortage of qualified STEM teachers. ATP STEM HUB answers both at once — a complete science laboratory on wheels, paired with an AI-powered teaching platform that supports every lesson.



01 — HARDWARE

ATP Mobile Lab

A full laboratory on wheels: modular Smart Trays for physics, chemistry, biology and robotics, with running water, power, fume hood and connectivity built in. Any room becomes a fully equipped lab in minutes.



02 — SOFTWARE

ATP Connect

A browser-based platform with guided digital experiments, automatic assessment and classroom analytics — plus Gali, the AI tutor that supports students and teachers before, during and after every session.

200+

guided experiments
with the Mobile Lab

5

subjects — physics, chemistry,
biology, robotics & AI

5

languages incl. Arabic —
EN · IT · FR · ES · AR

3-yr

warranty on every lab,
designed & made in Italy

"Training 10,000 STEM teachers takes years and enormous investment. Deploying ATP STEM HUB to 10,000 classrooms happens immediately."

Lab-agnostic setup · teacher-led AI support · hands-on student experimentation



ATP Mobile Lab — a complete laboratory, on wheels



Fully autonomous — water, power and digital guidance on board.

01

Modular Smart Trays

Every instrument in its place: foam-lined trays organised by discipline, with specialised add-on trays via the lightweight Air Cart.

02

All-in-one convenience

Running water, adjustable 0–30 V power supply, outlets, safe gas supply and fume hood — optional solar panel + inverter for off-grid use.

03

Connectivity hub

Built-in 4G LTE Wi-Fi router connects up to 32 devices and powers ATP Connect anywhere — even off-grid.

04

Robust & safe design

Aluminium honeycomb structure, chemical-resistant HPL worktop, lockable doors, extinguisher and first-aid kit.

05

Certified safety

CE certified and the only lab in its category conforming to EN 13150 for lab furniture — RoHS compliant.

06

Italian excellence

Proudly designed and made in Italy by skilled craftsmen — and covered by a comprehensive 3-year warranty.



182×65×92

cm — compact footprint

5

drawers + front & side doors

6

heavy-duty casters, 2 braked

32

Wi-Fi devices supported

110/230 V

with 8 m self-retracting cable

Smart Trays — every instrument, in its place

Each drawer holds foam-lined Smart Trays organised by discipline — lessons start in seconds, and inventory checks take one glance. Below: the complete **Science Bundle (REF. 4920.10)** equipment list, shipped inside the lab.



Organised by discipline. Shaped high-resistance foam pods protect every instrument in transit and make missing items visible instantly.

MECHANICS

58 items

- 1226.15** Cylinder graduated, tall form with spout. Capacity 100 × 1 ml, borosilicate glass
- 220.20** Double Side Scale, silk screen printed
- 2211.10** Tape measure 2 m
- 2213.10** Vernier caliper, scale 0÷160 mm, accuracy 0.05 mm (plastic) **×5**
- 2216.10** Goniometric Circle
- 2221.16** Flat mass 300 mg
- 2221.18** Flat mass 500 mg
- 2221.20** Mass 1 g
- 2221.22** Mass 2 g **×2**
- 2221.24** Mass 5 g
- 2221.26** Mass 10 g
- 2221.28** Mass 20 g **×2**
- 2221.30** Mass 50 g **×2**
- 2231.32** Mass 100 g
- 4110.21** Tubular Spring Balance – plastic (Dynamometer) – Range: 2.5 N **×2**
- 4110.22** Tubular Spring Balance – plastic (Dynamometer) – Range: 5 N **×2**
- 4110.81** Steel Spring with Pointer (diameter 0.75 mm, diameter 21 mm x 150 mm length) **×2**
- 4111.08** Cylindrical Mass with Hook (total 10 g) **×5**
- 4111.10** Cylindrical Mass with Hook (total 25 g) **×8**
- 4111.12** Cylindrical Mass with Hook (total 50 g) **×4**
- 4111.51** Slotted Mass 10 g **×5**
- 4111.56** Mass Hanger 10 g
- 4112.05** Pulley for Inclined Plane
- 4112.10** Pulley with Hook **×2**
- 4112.24** Triple pulley in Axis
- 4112.30** Triple pulley in Line
- 4112.40** Differential Pulley (30, 60 and 90 mm diameters)
- 4112.42** Differential Pulley with Two Handles (40, 80 and 120 mm diameters)
- 4112.45** Axle with Fixing screw for Differential Pulley **×2**
- 4113.20** Polyester inelastic String diameter 0.8 mm, length 10 m
- 4113.27** Scale Pan Hooked with metal suspension **×2**
- 4113.35** “S” Hook, length 30 mm approx. **×2**
- 4113.50** Rod with Clip **×2**
- 4113.53** Rod with hook diameter 10 mm, length 127 mm **×2**
- 4113.54** Red Pointer with Clip
- 4114.13** Lever Holed Rod with pair of threaded cylinders
- 4114.71** Friction Block
- 4114.80-011** Hook for Cart
- 4114.82** Cart for Inclined Plane
- 4861.10-020** Rod with cylinder diameter 3 mm, length 72.5 mm
- 4861.10-021** Rod with threaded stem M3 diameter 8 mm, length 70 mm
- 4861.10-024** Metallic Ring diameter 20 mm
- 4861.10-026** Brass Hook M3, 3 × 50 mm (diameter x length) **×2**
- 4861.10-027** Brass Hook M3. 3 × 40 mm (diameter x length) **×7**
- 4861.10-029** Balance Hook **×2**
- 4861.10-030** Rubber Band **×2**
- 4861.10-030** Metallic Bosshead 20 × 20 × 40 mm with knobs **×2**
- 4861.10-030** Bosshead PVC 20 × 20 × 60 mm with blue knobs **×2**
- 4861.10-030** Suspension Ring with Knob **×2**
- 4861.10-030** Support Rod length 350 mm **×2**
- 4861.10-030** Support Rod length 500 mm **×3**
- 4861.10-030** Multi-function Support Rod, rounded ends, with holes length 350 mm
- 4861.10-030** Inclined plane, with 3 different track terminals
- 4861.10-030** Knob (Inox Blue M4 × 10 mm)
- 4861.10-030** Digital chronometer
- 4861.10-030** Communicating vessel
- 4861.10-030** Food Colouring
- 4861.10-030** Base for capillary tube and communicating vessel

HEAT

18 items

- 1118.20** Beaker low form 100 ml, borosilicate glass **×2**

- 1118.35** Beaker low form 250 ml, borosilicate glass **×2**
- 1118.50** Beaker low form 500 ml, borosilicate glass **×2**
- 1274.00** Drying Tube, U shape. Length x diameter 100 × 13 mm, borosilicate glass
- 2240.15** Thermometer -10° +110°C
- 4200.95** Set of Two Cylinders in stainless steel
- 4210.50** Pulse Glass, Balls 40 mm, length 130 mm
- 4230.71** Mixing Calorimeter
- 4230.96** Specific Heat Cylinders
- 5416.20** Extension Clamp with Rod
- 5424.52** Grease Silicon for Glassware
- 5424.53** Paraffin Blocks
- 5449.25.L2000** Silicone tubing, bore 7 mm, outside diameter 10 mm, 2000 mm length
- 5450.23** Rubber stopper, top diameter x bottom diameter x length approx. 7 × 3.8 × 19.4 mm
- 5450.38** Rubber stopper, top diameter x bottom diameter approx. 22 × 16 mm, hole approx. 6 mm
- 5450.42** One-hole rubber stopper, top diameter x bottom diameter approx. 38 × 33 mm, hole approx. 5 mm
- 5533.10** Tripod Stand
- 5534.25** Wire Gauze, with Round Ceramic Centre **×2**

OPTICS

23 items

- 4402.30** Ray Optics and Colour mixing Box with Accessories
- 4402.35** Base support for Ray Optics Box
- 4414.02** Holder for 50 mm diameter Lenses and Mirrors **×4**
- 4414.12** Set of Seven Diaphragms
- 4414.03** Holder for Slides and Diaphragms
- 4414.18** Projector with 12V 20W Halogen Lamp
- 4414.19** Halogen Lamp 12V 20W **×2**
- 4417.01** Slider for Holder **×6**
- 4417.17** Slider for Projector
- 4418.29** Prism table
- 4418.35** White Metal Screen, squared 140 mm, 10 mm diameter support

- 4419.01** Hartl Disk, Matt White Face Graduated in Degrees, on stem
- 4419.06** Biconvex Lens for Hartl Disc f = +85 mm
- 4419.07** Biconvex Lens for Hartl Disc f = +135 mm
- 4419.08** Biconcave Lens for Hartl Disc f = -135 mm
- 4419.11** Deformable Mirror for Hartl Disc
- 4419.12** Plane Mirror for Hartl Disc
- 4419.13** Refraction Index Vessel for Hartl Disc. 60 mm diameter
- 4431.00** Set of 4 Concave Spherical Mirrors f: -5, -10, -15, -20 cm
- 4435.00** Set of 4 Convex Spherical Mirrors f: 5, 10, 15, 20 cm
- 4441.00** Set of 4 Biconcave Spherical Lenses f: -5, -10, -15, -20 cm
- 4445.00** Set of 4 Biconvex Spherical Lenses f: 5, 10, 15, 20 cm
- 4450.10** Equilateral Glass Prism Side 25 mm

ACOUSTICS

1 item

- 4317.40** Pair of La tuning forks

MAGNETISM

6 items

- 4611.10** Magnetic Field Chamber 2D
- 4611.40** Plastic Cased Bar Magnets **×10**
- 4611.71** U-Shaped Magnet (with Keeper)
- 4611.72** Horseshoe Magnet (with Keeper), flat – 100 mm
- 4612.12** Iron Filings (package of 200 g)
- 4614.50** Demonstration Compass

ELECTROSTATICS

7 items

- 4620.40** Wollen Cloth
- 4620.50** Silk Cloth
- 4620.10** Glass Rod for Electrostatic Charge
- 4620.13** Ebonite Rod for Electrostatic Charge
- 4620.14** Perspex Rod for Electrostatic Charge
- 4627.80** Hollow Sphere
- 4625.00** Pith Ball Electroscope

The full equipment list, discipline by discipline

ELECTRICITY

29 items

- 2275.10 Digital Multimeter
- 2505.61 Bulb Lamp 2.8V **x4**
- 2505.64 Bulb Lamp 6V **x4**
- 2505.65 Bulb Lamp 12V 2W **x4**
- 4766.50 Microphone with Cable
- 4764.26 Capacitor 10 μ F (2 plugs) **x2**
- 4764.28 Capacitor 1000 μ F, 25 V (2 plugs)
- 4763.30 Resistor 3.3 kohm 2 W (2 plugs)
- 4766.02 Signal Transistor NPN (4 Plugs)
- 4766.04 Power Transistor NPN (4 Plugs)
- 4766.54 Loudspeaker (4 plugs)
- 2522.02 Stackable Plug Lead, 25 cm, Red colour, Plug 4 mm **x2**
- 2522.03 Stackable Plug Lead, 50 cm, Red colour, Plug 4 mm
- 2522.07 Stackable Plug Lead, 25 cm, Black colour, Plug 4 mm **x2**
- 2522.08 Stackable Plug Lead, 50 cm, Black colour, Plug 4 mm
- 2531.52 Crocodile clips **x10**
- 4762.02 Boards for Electricity and Electronics Circuits
- 4762.20 Bridging Plugs (2 plugs) **x4**
- 4762.28 Two Cell Holder **x2**
- 4762.36 Lamp Holder **x4**
- 4762.60 Voltmeter 0-15 V and 0-1.5 V
- 4762.70 Push Button Switch (2 plugs)
- 4762.72 Toggle Switch, Single Pole (2 plugs)
- 4763.18 Resistor 100 ohm 2W (2 plugs) **x4**
- 4763.20 Resistor 220 ohm 2W (2 plugs) **x2**
- 4763.24 Resistor 470 ohm 2W (2 plugs) **x2**
- 4763.26 Resistor 1 kohm 2W (2 plugs) **x2**
- 4763.32 Resistor 4.7 kohm 2W (2 plugs) **x2**

- 4763.34 Resistor 10 kohm 2 W (2 plugs) **x2**

GENERAL CHEMISTRY

36 items

- 0001.40 32 Chemical Reagents Set
- 1118.15 Beaker low form 50 ml, borosilicate glass **x2**
- 1226.00 Graduated cylinder, tall form with spout, capacity 10 ml, borosilicate glass
- 1276.10 Drying tube U shape with side tubes
- 1322.10 Conical flask, wide mouth, capacity 150 ml, borosilicate glass
- 1322.20 Conical flask, wide mouth, capacity 250 ml, borosilicate glass
- 1337.15 Volumetric flask, polyethylene stopper, capacity 100 ml
- 1359.00 Separating funnel
- 1436.36 Graduated pipette, class B, zero at the top, capacity 1 ml, borosilicate glass
- 1436.40 Graduated pipette, class B, zero at the top, capacity 5 ml, borosilicate glass
- 1468.07 Right angle bent glass tube connector, outer diameter x length approx. 6 x 65 mm
- 1920.15 Porcelain evaporating dish, round bottom, capacity 50 ml
- 2162.16 Vinyl gloves, pack of 40
- 2148.25 Safety goggles **x5**
- 2219.30 Electronic Balance 300 g / readability 0.01 g
- 4716.12 Platinum electrode **x2**
- 4716.16 Zinc electrode **x4**
- 4716.21 Copper electrode **x4**
- 4716.23 Iron electrode **x4**
- 4716.24 Lead electrode **x4**
- 4718.10 Test cells cover **x2**
- 5514.10 Alcohol Burner
- 5448.10 3-way rubber pump, red rubber
- 5450.08 Rubber stopper for test tube 21 x 150 mm **x6**

- 5450.10 Rubber stopper for conical flask 150 ml
- 5450.11 Rubber stopper for conical flask 250 ml
- 5450.71 Two-hole rubber stopper for conical flask 250 ml
- 5450.72 One-hole rubber stopper for test tubes
- 5450.74 One-hole rubber stopper for conical flask 250 ml
- 5450.79 One-hole rubber stopper for conical flask 150 ml
- 5450.80 Two-hole rubber stopper for conical flask 150 ml
- 5453.20 Cork stopper for test tubes
- 5535.04 Triangle for crucibles, length of one side approx. 60 mm
- 7601.15 Model of Atoms
- 8340.08 Round filter paper
- 8884.02 Litmus paper Universal pH 0-14

PLANT PHYSIOLOGY

28 items

- 1253.00 Glass Petri Dish diameter 60 mm **x3**
- 1343.15 Funnel, short stem, diameter 75 mm, borosilicate glass
- 1441.50 Dropping pipette, Pasteur type, neutral glass, length approx. 150 mm **x5**
- 1444.10 Stirring rod, glass, diameter x length approx. 5 x 250 mm **x3**
- 1464.51 Large glass tube diameter x length approx. 34 x 190 mm
- 1468.02 Straight glass delivery tube outer diameter x length approx. 6 x 70 mm
- 1473.60 Test Tube with rim, diameter x length 21 x 150 mm **x6**
- 1489.05 Watch Glass diameter 60 mm **x2**
- 2221.22 Watch Glass diameter 80 mm **x2**
- 1640.50 Funnel for powder, polypropylene, diameter approx. 66 mm

- 1646.00 Laboratory film Parafilm
- 1680.06 Plastic Test Tube Rack for 6 Tubes Mountable diameter 20 mm length 240 mm
- 1951.05 Porcelain mortar with pestle, diameter approx. 80 mm
- 4182.61 Double Osmotic membrane
- 4182.62 Osmotic pressure apparatus - graduated
- 5401.16 Right Angle Clamp Metal **x2**
- 5404.52 Iron Stand, Mountable Blue Base with Support Rod
- 5423.30 Hardwood Test Tube Holder
- 5431.05 Mohr clip steel
- 5448.00 Nipple for dropping pipettes
- 5449.43m Connections for Glass Tube Transparent Silicone Rubber
- 5450.12 Rubber stopper for Large Glass Tube
- 5450.75 One-hole rubber stopper for large test tubes
- 5453.82 Cork borer set
- 5460.34 Double ended steel spatula
- 8261.30 Metal tweezers
- 8262.02 Scalpel
- 8349.20 Square filter paper

BIOLOGY

8 items

- Euromex BioBlue digital microscope — built-in camera for on-screen imaging, NeoLED illumination
- 1388.00 Microscope slides, precleaned, flat surface, smooth edge, approx. 76 x 26 mm — 50-piece box **x5**
- 1397.05 Cover glass, precleaned, approx. 20 x 20 mm — 100-piece box **x5**
- 6000.33 Mini Torso, Dual Sex, 16 Parts (other types on request)
- 6250.11 Double helix DNA model, 12 bp, 1 turn
- 7000.02 Prepared microscope slide set, Extensive Biology (24 slides)
- 7000.05 Microscope slide set, Insect anatomy (25 slides)
- 8267.15 Dissecting Set, 8 pieces **x5**

Science Bundle REF. 4920.10 — 214 catalogued items across 10 disciplines, all included. Contents are periodically refined; request the latest data sheet for tender documentation. Custom Smart Trays available on request.

STEM BUNDLE — GOES FURTHER

REF. 4920.1SB

Everything in the Science Bundle, plus **data logging, robotics, coding and DNA analysis** — wireless dataloggers, official Arduino Education kits and classroom electrophoresis.

ROBOTICS

Arduino Alvik

Programmable robot (Nano ESP32): line, distance & colour sensors, IMU, LEGO® Technic-compatible. Block code, MicroPython, Arduino.

CODING

Arduino Student Kit

Arduino UNO R3 kit: breadboard, multimeter, sensors and components — **9 guided lessons + 2 open projects.**

DATA LOGGING

ATP Labdisc



Wireless datalogger, up to 15 built-in sensors — pH, temp., light, motion, GPS.

CODING & CONTROL

ATP Xploris

Handheld device for **data logging, coding and control**: 5 sensors, motor & voltage outputs, 16x16 LED matrix. Blockly and Python.

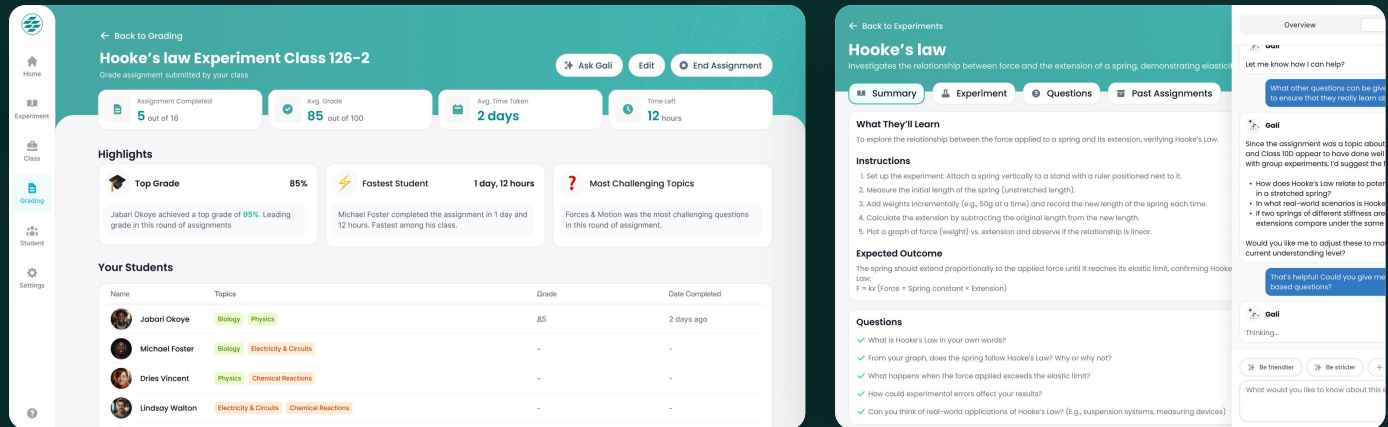
DNA ANALYSIS

EDGE™ Electrophoresis

Gel chamber, power supply and **blue-light transilluminator** in one. Agarose gel results in ~10 min, no UV needed.

ATP Connect — every lesson, guided by AI

ATP Connect turns the Mobile Lab into a complete teaching system. Browser-based and device-agnostic, it works on any laptop, tablet or interactive screen — online or offline.



200+ guided digital experiments

Step-by-step experiments across physics, chemistry, biology, robotics and AI — aligned to your curriculum, from the **Arduino Alvik** robot to artificial intelligence.

Assessment & analytics built in

MCQ, true/false and short-answer assessments with automatic grading, per-student performance tracking and class-level insights for teachers.

Multilingual & offline-first

English, Italian, French, Spanish and Arabic with full right-to-left support. Offline-first design keeps every classroom running, connected or not.

Teacher-led, not teacher-replacing

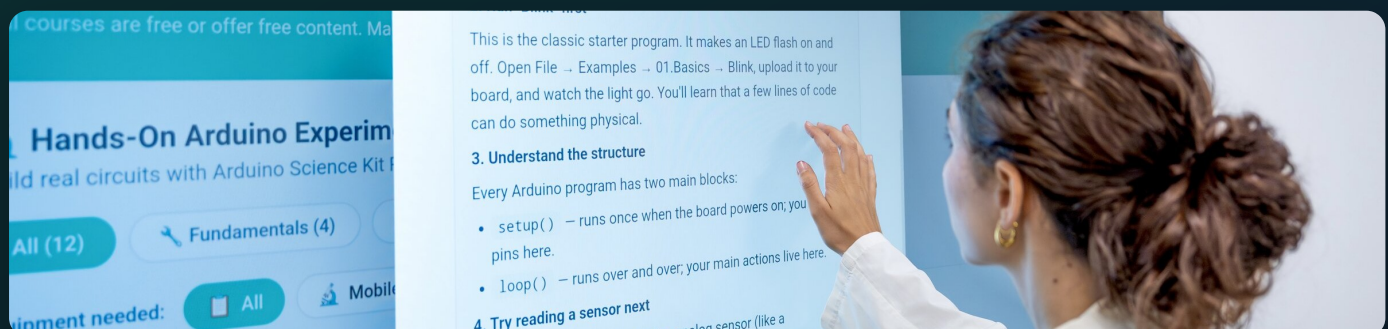
Pre-session briefings, real-time support and post-session analytics put teachers in command of every hands-on lesson — whatever their STEM background.

MEET GALI — THE AI TUTOR

Gali guides students with questions rather than answers, building real understanding during hands-on work. For teachers, Gali prepares each session, assists live in class and analyses results afterwards — expert support in 10 classrooms or 10,000, immediately.

Built by ATP Technologies LEARNING CONTENT FROM

Anthropic · Arduino Education · Harvard University · Khan Academy · NASA · Raspberry Pi Foundation



Choose your bundle, then grow

SCIENCE

REF. 4920.10

Science Bundle

All the essential equipment to run **120+ experiments** in biology, chemistry and physics — ideal for grades 6 to 9. Includes manuals with teacher sections and student modules.

STEM

REF. 4920.1SB

STEM Bundle

Everything in the Science Bundle, plus data logging, robotics and life science: **ATP Labdisc & Xploris** dataloggers, official Arduino kits — Alvik robot and Student Kit — and the **EDGE™ electrophoresis system**.

EXPAND

REF. 4920.50

Air Cart & custom trays

Add specialised Smart Trays on the lightweight aluminium Air Cart — or ask us to **customise a tray** with the exact equipment your curriculum requires.

For schools

- A full laboratory without construction, permits or dedicated rooms
- Expert AI support for every teacher, in every lesson
- Engaging, hands-on lessons that students remember

For education authorities

- Curriculum-aligned content with measurable learning outcomes
- Scales from a pilot to a national programme immediately
- Cost-efficient: one investment equips an entire school

For distributors & partners

- Hardware sales plus recurring SaaS platform revenue
- Certified, award-winning product made in Italy
- Multilingual platform ready for global markets



Lab Mobile 4920.10 — data sheet

Dimensions & weight	182 × 65 × 92h cm · 195 kg total
Typology	Mobile cart with worktop, five drawers, frontal and lateral doors
Work top	Chemicals-resistant HPL
Structure	Supporting profile in aluminium, lightweight honeycomb panels, painted with anti-acid paint
Wheels	6 heavy-duty casters, two with brakes
Power supply	Adjustable DC 0–30 V, 10 A max; digital displays for voltage, current and power; over-current & over-voltage protection; output on/off; 5 V / 2 A USB output
Hydraulic system	Electric pump with push button; two 10 L acid-resistant polyethylene tanks for water and waste
Electrical system	Main switch with 10 A curve-C residual-current protection and TEST button; 110 / 230 V via internal voltage selector; 8 m self-retracting cable
Electrical outlets	Front: 2 universal + 1 Schuko, 2 USB-C Power Delivery + 1 USB-A fast charge; rear: 2 universal + 1 Schuko — all 220 V 16 A

Educational material	Included, in trays with custom-shaped high-resistance protective foam inserts
Manuals / support	200+ guided experiments in English — teacher section and student modules, paper and digital, with multimedia materials
Connectivity	4G LTE mobile Wi-Fi router, WiFi 802.11 b/g/n, up to 32 devices (Mini-SIM & internet service required, not included)
Safety systems	Doors lockable with a single key; 1 kg powder extinguisher, first-aid kit, steel safety box
Certifications	CE: 2004/108/CE EMC · 2006/95/CE electrical safety · 2011/65/EU RoHS · UNI EN 13150
Warranty	3 years on all Lab Mobile units (wear parts, consumables and glassware excluded)
Awards	Awarded by the Worlddidac Association as an innovative product
Optional — solar kit	Photovoltaic panel + inverter, housed in a dedicated ventilated bay inside the cabinet — fully off-grid operation
Packaging	Fumigated wood pallets for maritime transport, fitted 3-layer carton box

CE · EN 13150

Certified — unique in its category

Made in Italy

Designed & crafted by ATP

3-year

Comprehensive warranty



All in one classroom.
Tomorrow's skills, today.

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See it live

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