

ROBOATLAS.AI

WRC 2026

Post-Show Product & Industry Report

New products · technical specifications · application expansion · commercialization signals

AUGUST 2026

ROBOTICS RESEARCH & DATA

WRC 2026: the biggest shift was not another humanoid

The show's real increment was the simultaneous thickening of products, tasks, and deployment evidence.

373

exhibitors

3,000+

exhibits

311

new products

4

recurring scene expansions

CORE READ

WRC moved from “can the robot perform?” to “can the system repeat a complete task under measurable constraints?”

Home robots showed longer routines. Logistics shifted to item-level handling. Industrial demos used cycle time, precision, load and uptime. Dexterous hands, tactile sensing, edge compute and data products became independent commercial layers.

Five product layers expanded at the same time

The industry chain is thickening in parallel: body, model, manipulation, perception, and data infrastructure.

01 Humanoids & task bodies

Vbot ATOM · Tiangong Omni · LimX Luna · MagicBot X1 · Kepler Qilin · RealBOT-S2

02 Models & robot brains

SynapX SYNWorld · WALL-B · Pelican-Unify · AstraBrain-Agent · Spirit v1.6

03 Hands & tactile systems

OctoH-Hand · Xynova Prima 1 / Flex 2 · RH524J1 · DexHand021 Pro · PaXini

04 Vision, radar & edge

Orbbec Pysis · VanJee WLR-750 · Huixi R1 PRO · Rockchip RK182X · D-Robotics ecosystem

05 Data & evaluation

Lightwheel EgoSuite-Open100K · RoboFinals · RoboStack · HiPHI · EgoLive · OctoSense

Home robots moved from isolated actions to multi-step routines

The 2026 increment was not ‘home robots exist,’ but longer task chains and more explicit recovery behavior.

Company / product	Tasks shown at WRC	What changed
MOKI MORPHI KINO + MoRA	~15-minute multi-zone routine: clear table, refrigerator inventory/replenishment, wash/dry/fold laundry	A continuous household sequence, not a single scripted action
Qianxun Intelligence Moz1 + Spirit v1.6	Refrigerator loading, dishwasher, trash, toy storage; replanning after object movement	Company reports +15% overall efficiency in 30 days and >99% on selected subtasks
QUANTA Robotics WALL-B	Clothing organization, item pickup/delivery, drinks, clearing table, watering, cat litter, recharge	A unified model linked to a broad household task portfolio
Galbot Galbot G1 + AstraBrain	~5-minute garment folding plus laundry and breakfast demonstrations	Task agent organizes multiple skills and recovery
Xinyan Robotics Bubbo 1	Proactive companionship, child monitoring, long-term memory	Home service expands beyond manipulation into continuous interaction

Item-level manipulation became the clearest logistics increment

Throughput, recognition rate, SKU range, and exception recovery made logistics one of the most measurable fields at WRC.

Company / system	Public WRC metric or task	Commercial signal
Robot Era parcel sorting	~1,200 parcels/hour on site; internal peak 2,000/hour	A measurable public task, not a highlight reel
QUANTA Robotics WALL-B logistics	1,816 parcels/hour; >98% recognition in a public one-hour run	Item-level handling crosses into auditable throughput
Galaxea AI automated micro-fulfillment	10,000-scale SKU environment with exception recovery	Moves from tote transport to mixed-item operations
JD Logistics Wolf robot fleet	Transport, sorting, loading, and delivery across a coordinated fleet	Commercial value comes from system orchestration
Ant Lingbo R2 + LingBot	Full pharmacy workflow in <60 seconds; flexible parcel handling	Task-specific body and software close the service loop

Industrial demos moved closer to process-level tasks

Assembly, inspection, tool use, material handling, motor disassembly, and machine tending put the body, hand, perception, and model under one operating constraint.



Smartphone component assembly and inspection

The evaluation shifts from motion appearance to positioning accuracy, force control, cycle time, and recovery.

Constraint	Required capability	WRC product signal
Precision	Sub-millimeter positioning · stable force control · low vibration	Astriobot T1: ± 0.3 mm public specification
Load	Racks · pallets · boxes · heavy parts	Kepler Qilin: near-ton full-load claim; industrial bodies cover ~300 kg class
Uptime	Multi-shift operation · fast battery exchange · maintainability	MagicBot X1 dual hot-swap batteries; Qilin 8-hour runtime
Tool use	Fasteners · connectors · flexible harnesses	ForceMinds F1 motor disassembly/reassembly demonstration

Robot morphology is increasingly defined by the job

Retail, pharmacy, cleaning, inspection, and outdoor operation favor different bodies—and procurement evidence matters more than stage performance.

Company / product	Job	Evidence shown	What to evaluate
Ant Lingbo R2 + LingBot	Pharmacy	<60-second full workflow	Narrow aisle access, reliable picking, task software
Wujie Dynamics K15 + MWA	Coffee / retail	End-to-end preparation and handoff	A dedicated body paired with a scene model
MAXHUB X7	Inspection	Indoor patrol and anomaly detection	Coverage, sensing, uptime, and fleet tools
MAXHUB C3 Plus	Commercial cleaning	500–3,000 m ² customer evidence	Area coverage and service network
State Grid suppliers quadrupeds	Power inspection	Large procurement values reported	A demand-side signal for repeatable inspection—not proof of unit shipments

Humanoid products must be compared with the test object attached

Height and degrees of freedom are useful context. The operating condition—load, speed, precision, runtime, or channel access—explains the product.

Company / product	Form	Size / mass	Key public metrics	Primary operating condition
Vbot ATOM	Biped humanoid	1.60 m	31 DoF · 1.80 m arm span · 0.79 m work radius	General service and development
Beijing Humanoid Robot Innovation Center Tiangong Omni	Compact humanoid	1.35 m · 39 kg	Mobility + office tasks + open development	Research and multi-task mobility
LimX Dynamics Luna	Biped humanoid	1.60 m · 54 kg	27 DoF · 5 km/h · ~4 h · 200+ unit synchronization	Fleet operation and development
MagicLab MagicBot X1	Full-size humanoid	1.80 m · ~70 kg	31 DoF · dual hot-swap batteries · 7×24 h claim	Long-duration industrial operation
RoboParty ROBOTO 01 (RP1)	Compact humanoid	1.30 m · <40 kg	24/30 DoF · 5 kg/arm · ≥3 h	Fast interaction and open development

Task-oriented bodies are now specified around operating conditions

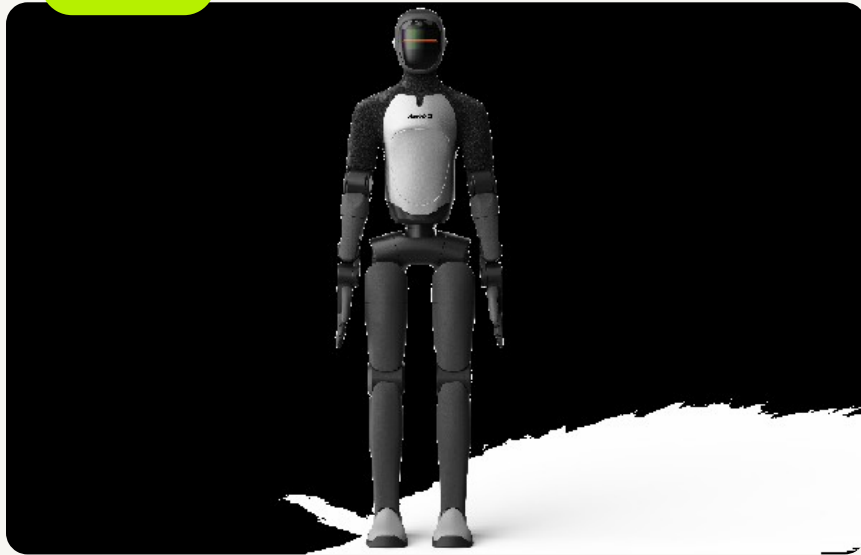
This group is better sorted by load, precision, passage width, terrain, and runtime than by resemblance to a human.

Company / product	Form	Size / mass	Key operating metrics	Use case
Kepler Robotics Qilin	Heavy-duty quadruped	2,150×760×1,600 mm · ~300 kg	Near-ton full-load claim · 8 h · body IPX5 / core IP67 · 35° slope	Heavy industry / outdoor
Astribot T1	Wheeled humanoid / mobile arms	1.73 m · 80 kg	29 DoF · 5 kg/arm · >10 m/s end-effector · ±0.3 mm	High-speed precision
RealMan Robotics RealBOT-S2	Wheeled dual-arm	870×630×1,630 mm · ~125 kg	38 DoF · 5 kg/arm · ~6 h runtime	Pharmacy / warehouse
Deep Robotics Lab Simbot	Wheeled dual-arm	Not publicly disclosed	23 body DoF · 7 DoF/arm · multimodal perception	Home / service
MagicLab MagicDog T1	Quadruped	~18 kg	15 kg continuous load · 4 h · 4 m/s · 40° slope	Inspection / outdoor
Vbot EDU-W	Wheel-legged quadruped	Not publicly disclosed	2.5 m/s · +50% energy efficiency · RMB 49,988	Education / development
Vbot BoBo	Quadruped	62×30×43 cm · ~14 kg	12 kg payload · 100 kg traction · 5 h	Home / service

Vbot is building three distinct body routes

ATOM, BoBo, and EDU-W are separate products for bipedal service, quadruped mobility, and wheel-legged development.

BIPED



Vbot ATOM

1.60 m · 31 DoF · 1.80 m arm span · 0.79 m single-arm work radius · delivery planned by end-2026

VBOT

BoBo

62×30×43 cm · ~14 kg
12 kg payload · 100 kg traction · 5 h

A four-legged mobility product for service and developer use. Its specifications are not interchangeable with ATOM or EDU-W.

VBOT

EDU-W

Wheel-legged quadruped
2.5 m/s · +50% energy efficiency
List price: RMB 49,988

A wheel-legged development platform. It is not a wheeled humanoid, and its metrics belong to a separate body family.

Tiangong Omni combines mobility, office tasks, and open development

The compact humanoid is positioned as a research and application platform—not as an unrelated RoboScience product.



1.35 m

height

39 kg

mass

Mobility

walking and whole-body control

Office tasks

object handling and task execution

What to learn

The product's value is the combination of compact mobility, task execution, and an open development route—not one isolated performance stunt.

Tiangong Omni

Luna and MagicBot X1 optimize for different operating models

One emphasizes synchronized fleets and development; the other emphasizes full-size industrial endurance and battery continuity.



LimX Dynamics | Luna

1.60 m · 54 kg · 27 DoF · shoulder width 47 cm · arm length 69 cm · 3 kg/arm · 5 km/h · ~4 h

Operational signal: synchronized control of 200+ units demonstrates fleet orchestration as a product capability.



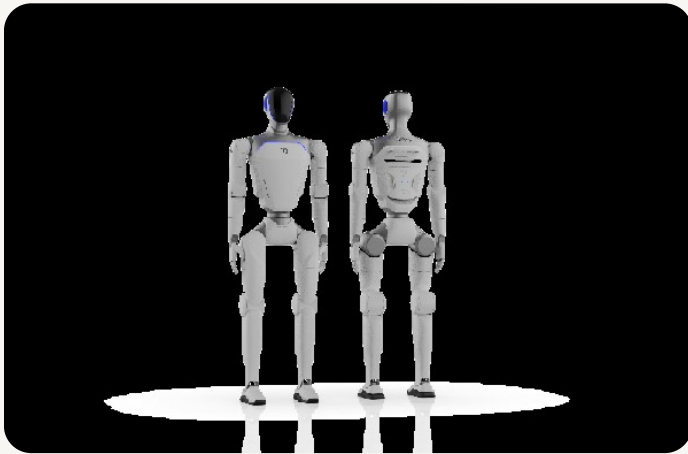
MagicLab | MagicBot X1

1.80 m · ~70 kg · 31 DoF · arm span 158 cm · leg length 92 cm · joint peak torque ≥ 350 N·m

Operational signal: dual hot-swappable batteries support the company's 7×24-hour continuity claim.

Durability, speed, and interaction split compact bodies into tiers

Kengo focuses on mechanical durability, ROBOTO 01 on speed and payload, and Simbot on multimodal task interaction.

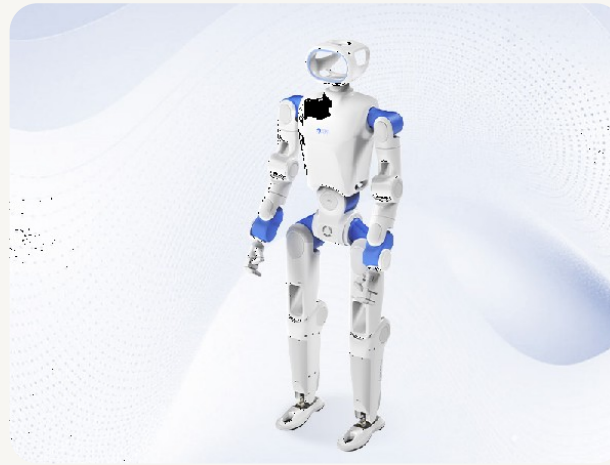


GALAXEA AI

Kengo

>200,000 internal-cable bending cycles · 10 fall tests

The figure refers to the bending life of internal wiring in hollow joint modules—not the robot's overall service life.



ROBOPARTY

ROBOTO 01 (RP1)

1.30 m · 24/30 DoF · 5 kg/arm · ≥3 h

Fast compact humanoid with hot-swappable batteries and an open development ecosystem. RPO is a different product.



DEEP ROBOTICS LAB

Simbot

23 body DoF · 7 DoF/arm

Wheeled dual-arm platform combining vision, force, touch, and language for home and service tasks.

Task-oriented bodies are diverging by operating condition

Heavy load, high-speed precision, and narrow-channel operation produce different bodies and different evaluation metrics.



KEPLER ROBOTICS

Qilin | heavy-duty quadruped

2,150×760×1,600 mm · ~300 kg · near-ton full-load claim · 8 h

Evaluate protection, slopes, runtime, and limit load—not motion speed.

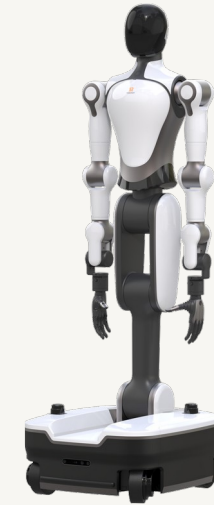


ASTRIBOT

T1 | wheeled humanoid

1.73 m · 80 kg · 29 DoF · 5 kg/arm · ±0.3 mm

Evaluate end-effector speed/acceleration, repeatability, charging, payload, and recovery.



REALMAN ROBOTICS

RealBOT-S2 | wheeled dual-arm

870×630×1,630 mm · ~125 kg · 38 DoF · ~6 h

Evaluate chassis radius, low-workspace access, continuous operation, and exception recovery.

Embodied “brains” are moving from VLA claims to deployable systems

Products are increasingly packaged around data, skills, cross-embodiment transfer, agents, and deployment loops.

Company / model	Type	WRC disclosure	Target scene
SynapX SYNWorld	World model	Product loop with OctoH-Hand and OctoSense	Complex manipulation
QUANTA Robotics WALL-B	World Unified Model (WUM)	Unified multimodal perception, physical reasoning, and action policy	Home / logistics
RoboScience Pelican-Unify	Cross-task / cross-body VLA	Cloud cross-body grasping and fast hand swapping	Retail / developer platform
Galbot AstraBrain-Agent	Task agent	Planning, skill calls, and exception recovery	Commercial service chains
Qianxun Intelligence Spirit v1.6	Embodied model	Company reports +15% capability in 30 days	General manipulation
Wujie Dynamics MWA	World / behavior model	Closed-loop coffee task with K15	Commercial service
Galaxea AI Visics 1.6	Embodied foundation model	Supports R1 Pro and other bodies	Logistics / industry
DexForce DexWorldModel	Dexterous manipulation world model	Assembly and inspection	Industrial precision
ForceMinds DM2.0	Scene model	Task-completion and data-loop orientation	Multiple scenes
Vbot OmniDuplex / WorldModel / EvoMorph	Interaction / prediction / cross-body	Covers biped, wheel-legged, and quadruped products	Home / service

SynapX separates the model, hand, and data-capture products

SYNWorld is the world model. OctoH-Hand is the dexterous hand. OctoSense is the data-capture system.



SYNWorld

Learns and predicts interaction dynamics for complex manipulation.

MODEL $\neq$ HAND



OctoH-Hand

23+ DoF, multimodal sensing, and compliant force control.

A distinct commercial product



OctoSense

Fisheye headset, EMG wristband, and exoskeleton glove.

A distinct commercial product

Unified models, task agents, and scene models can coexist

A robot may use a general action model underneath, a task agent above it, and scene-specific skills where deployment reliability matters most.

01

Unified embodied model

SYNWorld · Pelican-Unify

GOAL

Cross-task and cross-body transfer

ADVANTAGE

Less task-by-task training

BOTTLENECK

Data scale, edge latency, long-tail failure

02

Task agent

AstraBrain-Agent

GOAL

Decompose tasks and call skills

ADVANTAGE

Organizes long-horizon task chains

BOTTLENECK

Plan reliability, recovery, skill availability

03

Scene / world model

MWA · DexWorldModel · Visics

GOAL

Raise success in a defined scene

ADVANTAGE

Faster path to deployment threshold

BOTTLENECK

Cross-scene transfer and data reuse

DEPLOYMENT COMBINATION · Generalization below · long-task orchestration above · scene models at critical process steps

Model products are being judged by iteration speed and closed-loop tasks

Parameter count is no longer the only metric. Short-cycle improvement, real orders, precision, and cross-body transfer are closer to commercial value.

QIANXUN INTELLIGENCE

Spirit v1.6

+15%

30-day company-reported improvement; emphasizes feedback from real tasks.

WUJIE DYNAMICS

MWA + K15

COFFEE

Model and dedicated body complete preparation and delivery.

DEXFORCE

DexWorldModel

FORCE LOOP

Vision, force sensing, and skills support assembly and inspection.

GALAXEA AI

Visics 1.6

99.9%

Company-reported box-folding success for a body-model system.

ROBOSCIENCE

Pelican-Unify

CROSS-BODY

Cloud grasping transfers across robot bodies and interchangeable hands.

GALBOT

AstraBrain-Agent

LONG HORIZON

Turns individual manipulation skills into executable task chains.

Dexterous-hand launches were broader than four headline products

Direct drive, tendon drive, hybrid architectures, local compute, and different active-DoF choices appeared as separate product strategies.

Company / product	Architecture	Public metrics	Positioning
SynapX OctoH-Hand	Compliant multimodal hand	23+ DoF · multimodal sensing	Model-hand-data closed loop
Xynova Prima 1	Pure direct drive	22 DoF · 15 N · 20 kg lift · 0.08 s	Research-grade precision and response
Xynova Flex 2	Hybrid tendon + direct drive	23 DoF · 400 g · 12 kg lift · >1M full-hand cycles	Industrial and consumer markets
Inspire Robots RH524J1	Hybrid drive	24 active DoF incl. 2 wrist DoF	High active-DoF manipulation
DexRobot DexHand021 Pro	Dual tendon + local compute	22 DoF · onboard processing	Compact deployable intelligence
ZWHAND B21	Independent joint drive	Full specifications not disclosed	Modular independent actuation
Zhixing Robotics 3-hand lineup	Independent products	3-finger 7 DoF · 5-finger 7 DoF · 5-finger 12 DoF	Coverage across cost and dexterity tiers

WRC did not converge on a single hand architecture

Drive choice changes package size, controllability, maintenance, lifetime, and cost—but the trade-off belongs at the architecture level, not as duplicated product copy.



SYNAPX

OctoH-Hand

Compliant multimodal

23+ DoF · sensing + force control

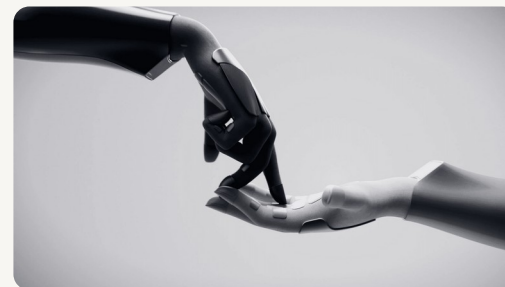


XYNOVA

Prima 1

Pure direct drive

22 DoF · 15 N · 20 kg · 0.08 s



XYNOVA

Flex 2

Hybrid tendon + direct

23 DoF · 400 g · 12 kg · >1M cycles



DEXROBOT

DexHand021 Pro

Dual tendon + local compute

22 DoF · onboard computing

READ THE TRADE-OFF · response & controllability · package & weight · maintenance · cycle life · cost

PaXini extends touch from fingertips to feet and cross-embodiment data

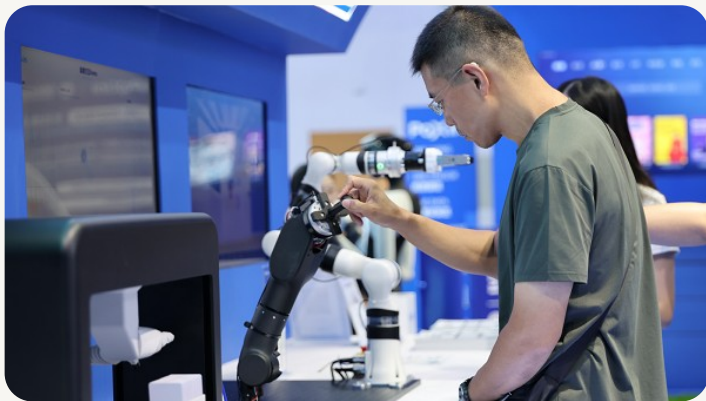
The WRC display connected foot pressure, electronic skin, feather-light touch, and fine assembly into one control-oriented tactile system.



Booth-wide tactile system



PX-FOOTRIX foot sensing



Millinewton-class light touch

Product / system	Sensing target	Robot capability
PX-FOOTRIX	Foot pressure and contact distribution	Gait stability, terrain feedback, center-of-mass control
PXCap Pro	Whole-body / curved-surface electronic skin	Collision, proximity, human safety, grasp feedback
PX6AX Gen 2	Six-axis force / torque	Assembly, polishing, tool use, impedance control
Cross-body glove and data system	Demonstration motion and contact	Transfer the same operating experience across embodiments

The booth also showed 0.01 N-class force control in small-horse assembly: the shift is from ‘sensing touch’ to using touch in control.

Force, temperature, proximity, and whole-body safety are converging

Tactile products are expanding from a single force value to multimodal contact states for manipulation, legged motion, and human-robot collaboration.

Company / product	Public parameters	Robot capability	What to learn
Tashan Technology TS-FT	−20 to 120°C · detects temperature within 3 s	Hot/cold object handling, material and contact state	Temperature becomes a manipulation input
Tashan Technology TS-EST	0.01 N · 0.1°C · proximity >1 cm	Electronic skin, safety, pre-contact sensing	Touch begins before physical contact
PaXini PX-FOOTRIX	Foot pressure and contact distribution	Gait stability, terrain feedback, center-of-mass control	Tactile sensing moves into locomotion
Kinetix whole-body tactile system	18,000 contact points, company-reported system total	Whole-body collision, interaction, and manipulation feedback	Safety and manipulation share one sensory layer

Metric discipline matters: a cycle-life claim such as Xynova Flex 2’s >1 million full-hand cycles is a product durability test—not a tactile sensor resolution figure.

Edge deployment is a three-layer problem

Sensors must survive and synchronize; compute must hold the model and I/O; exhibited robots must prove that the stack actually deploys.

Orbbec | Physis

257 g · IP67 · -30 to 65°C · multi-camera sync <1 ms

SENSOR

Wuhan Langyi | Lingjing

Perception product framed around spatial understanding

SPATIAL
INTELLIGENCE

VanJee | WLR-750

0.1 m near-field blind zone · 140×70° FoV

LIDAR

Huixi | R1 PRO

375 TOPS · 204.8 GB/s · 22 cameras · 1 kHz

EDGE COMPUTE

Rockchip | RK182X

2.5/5 GB stacked DRAM · local 3B/7B models

EDGE AI

GigaDevice | GD32H77R

100 kHz · encoder accuracy $\pm 0.015^\circ$

MOTION CONTROL

DEPLOYMENT ECOSYSTEM SIGNAL

D-Robotics did not exhibit independently. Its latest edge stack appeared through WRC robots: Vbot ATOM used Sunrise S100P (128 TOPS CPU + BPU + MCU), while RoboParty ROBOTO Origin used RDK X5 (10 TOPS).

Hours, frames, participants, and precision are different metrics

A capture system, dataset, glove, and evaluation platform should not be compared by one number—or described as ‘actors’ without context.

Company / product	Product type	Public data / specification	How to read the metric
HiPHI dataset	Optical motion dataset	617.5 h incl. mirrored data · 308.7 raw h · 200.1M frames · 132 participants · 90 Hz · <1 mm marker tracking	Participants are human contributors; sub-millimeter refers to optical marker tracking
EgoLive	Egocentric dataset	~2,000 h · 65,866 episodes · 346 tasks · stereo RGB + IMU	Task and episode coverage, not robot operating hours
QUANXTA Zero	Data-capture product	Wearable / demonstration data workflow	Evaluate channels, calibration, latency, and export format
SynapX OctoSense	Capture system	Fisheye headset · EMG wristband · exoskeleton glove	Model, hand, and data collection remain separate products
Moxian tactile glove	Dense contact capture	368 sensing points · 9 points/cm ²	Spatial sensing density—not motion precision
REX G1	Data glove / teleoperation	Hand-motion capture and robot mapping	Evaluate retargeting quality and cross-body mapping

Lightwheel links data, evaluation, and deployment feedback

The product is not a single dataset: it is a loop connecting large-scale capture, comparable evaluation, fleet deployment, and failed-sample return.



EgoSuite-Open100K

100,000 hours · 7 environment groups · 128 scene types · 15,000+ tasks/scenes · head + wrist capture · pose, semantics, and depth



RoboFinals

Evaluation designed to be measurable, comparable, reproducible, and large-scale—so model progress can be separated from demo selection.

DATA

EgoSuite

EVALUATION

RoboFinals

DEPLOYMENT

RoboStack

RETURN

Failed samples

Five themes dominated post-show coverage

Across official releases and major media, attention shifted toward complete tasks, measurable performance, and deployable product layers.

01 Home task chains

Coverage emphasized folding, clearing tables, cat litter, and item delivery—not dance or running clips.

02 Measurable logistics

1,200–2,000 parcels/hour, 1,816 parcels/hour, >98% recognition, and 99.9% box-folding claims became headline metrics.

03 Hands and data as products

22/23+ DoF, drive architecture, dense touch, cycle life, and independent data gloves formed separate product lines.

04 Task-body differentiation

Wheeled dual-arm, heavy-duty quadruped, and full-size humanoid products were discussed through load, slope, runtime, and precision.

05 Closed-loop model evidence

Model stories were increasingly tied to orders, assembly, pharmacy, coffee service, and cross-body demonstrations.

Seven trends will continue beyond WRC

These are structural directions jointly signaled by product releases and on-site task demonstrations.

- 01 Home becomes the next scene laboratory**
Start with high-frequency tasks and developer products, then expand to long-horizon routines.
- 02 Item-level logistics scales first**
Structured, measurable, order-dense environments reward throughput and success-rate iteration.
- 03 Bodies differentiate by task**
Humanoids, wheeled dual-arm robots, quadrupeds, and dedicated machines coexist.
- 04 Dexterous hands become an industry layer**
Hands, tactile sensing, gloves, control models, and calibration tools form a product chain.
- 05 Models move from size to closure**
Cross-body models, agents, world models, and skills address long-tail failures.
- 06 Deployment parameters move forward**
Protection, temperature, sync, runtime, swap time, maintenance, and edge power enter launches.
- 07 Data becomes a product; interfaces standardize**
Frames, frequency, participant count, and cross-body mapping are disclosed more explicitly.

Commercialization is becoming measurable

The strongest signals combine a named product, a defined task, a public operating condition, and a metric that can be repeated.

Signal	Company / product	Public metric	Why it is closer to commercialization
Auditable throughput	QUANTA Robotics WALL-B logistics	1,816 parcels/hour · >98% recognition · public 1-hour run	A fixed task and duration make performance reviewable
High task success	Galaxea AI R1 Pro + G0.5	99.9% packaging / box-folding success, company claim	A system-level result links body, perception, model, and tooling
Operational continuity	MagicLab MagicBot X1; Kepler Qilin	7×24 h continuity claim via dual battery; 8 h runtime	Runtime and energy architecture determine shift coverage
Environmental robustness	Orbbec Physis; Kepler Qilin	IP67 / -30-65°C / <1 ms sync; body IPX5 / core IP67	Deployment limits are specified before field use
Customer-side evidence	MAXHUB C3 Plus	500-3,000 m ² customer deployment evidence	The metric is tied to a real area and service requirement
Demand-side procurement	State Grid ecosystem quadruped inspection	Large contract values reported	Signals rising inspection demand; it is not equivalent to confirmed robot shipments

Product directory A | bodies, models, and hands

A quick reference keeps company, full product name, form, and headline parameter in one record.

Company	Full product name	Category / form	Headline public parameter
Vbot	ATOM	Biped humanoid	1.60 m · 31 DoF · 1.80 m arm span
Vbot	BoBo	Quadruped	62×30×43 cm · ~14 kg · 12 kg payload
Vbot	EDU-W	Wheel-legged quadruped	2.5 m/s · RMB 49,988
Beijing Humanoid Robot Innovation Center	Tiangong Omni	Compact humanoid	1.35 m · 39 kg
LimX Dynamics	Luna	Biped humanoid	1.60 m · 54 kg · 27 DoF · ~4 h
MagicLab	MagicBot X1	Full-size humanoid	1.80 m · ~70 kg · 31 DoF
Galaxea AI	Kengo	Humanoid body	Internal wiring >200k bending cycles
RoboParty	ROBOTO 01 (RP1)	Compact humanoid	1.30 m · 24/30 DoF · 5 kg/arm · ≥3 h
RoboParty	ROBOTO Origin (RPO)	Open humanoid	1.25 m · 34 kg · 23 DoF · >2 h
Kepler Robotics	Qilin	Heavy-duty quadruped	~300 kg · near-ton full-load claim · 8 h
Astribot	T1	Wheeled humanoid	1.73 m · 80 kg · 29 DoF · ±0.3 mm
RealMan Robotics	RealBOT-S2	Wheeled dual-arm	870×630×1,630 mm · ~125 kg · 38 DoF

Product directory B | models, manipulation, perception, and data

Specifications use company-reported public values; category and unit definitions should be read before comparing products.

Company	Full product name	Category	Headline public parameter / evidence
SynapX	SYNWorld	World model	Model layer in a model-hand-data product loop
SynapX	OctoH-Hand	Dexterous hand	23+ DoF · multimodal sensing
SynapX	OctoSense	Data capture	Fisheye + EMG + exoskeleton glove
Xynova	Prima 1	Direct-drive dexterous hand	22 DoF · 15 N · 20 kg lift · 0.08 s
Xynova	Flex 2	Hybrid-drive dexterous hand	23 DoF · 400 g · 12 kg · >1M cycles
Inspire Robots	RH524J1	Hybrid dexterous hand	24 active DoF incl. 2 wrist DoF
DexRobot	DexHand021 Pro	Dual-tendon hand	22 DoF · local compute
PaXini	PX-FOOTRIX	Foot tactile sensing	Pressure and contact distribution
Tashan Technology	TS-EST	Electronic skin	0.01 N · 0.1°C · proximity >1 cm
Orbbec	Physis	3D vision sensor	257 g · IP67 · -30–65°C · sync <1 ms
Lightwheel	EgoSuite-Open100K	Embodied dataset	100k h · 128 scene types · 15,000+ tasks/scenes
QUANTA Robotics	WALL-B	World Unified Model	Home and logistics task portfolio

New WRC exhibitors A | new capabilities entering the show

‘New’ here means a first WRC appearance, not a newly founded company. Capital information is intentionally excluded.

Company	What it brought to WRC	Why it matters
SynapX	SYNWorld, OctoH-Hand, and OctoSense	A model-hand-data stack presented as three distinct products
MOKI	MORPHI KINO + MoRA household system	Longer household routines and multi-zone operation
Simple AI	Embodied AI systems and task demonstrations	Adds another model-to-application development route
Daxiao Robotics	Robotics platform and product demonstrations	A new WRC participant; no unsupported task claim is added
RoboScience	Pelican-Unify	Cross-task, cross-body VLA and developer platform
Zeroth Robotics	Compact robotics products	Broadens consumer and service robot participation
ForceMinds	F1 and DM2.0	Industrial disassembly/reassembly linked to a scene model
Xinyan Robotics	Bubbo 1	Proactive home companionship and monitoring

New WRC exhibitors B | the field is expanding beyond robot bodies

New participants also came from AI labs, industrial equipment, perception, and enabling technologies.

Company	WRC focus	Category entering the WRC ecosystem
Gaode Momentum	Robotics motion and control technologies	Core motion / control
CMB Lion Rock AI Lab	AI research and embodied-intelligence work	Research / finance-backed AI lab
CAS Kaichuang	Robotics technology commercialization	Research-to-industry platform
Jiechuang Intelligence	Industrial intelligence and robotics	Industrial application
Ruiwei Technology	Vision and perception technologies	Perception infrastructure
Schaeffler Embodied Intelligence Robotics (Taicang)	Embodied robotics and industrial components	Industrial supply chain
EMAG China	Machine tools and automated manufacturing	Manufacturing process integration
RoboParty	ROBOTO 01 (RP1) and ROBOTO Origin	First WRC appearance; company previously participated in WATC

First-time participation should be used to map new capability inflow—not as a proxy for company age, funding, or commercial maturity.

Forum discussions shifted from technical possibility to industrial conditions

The useful signal is the repeated demand underneath the agenda: ROI, reliability, data quality, supply chains, and deployment collaboration.

- 01 ROI & commercialization** Buyers want task economics: labor replaced or augmented, utilization, payback, service cost, and uptime.
- 02 Home robotics** The debate is moving from novelty to safety, multi-step routines, privacy, and a viable service model.
- 03 Data scale & quality** More hours are not enough; capture channels, participant diversity, task coverage, precision, and rights matter.
- 04 Reliability & engineering** Protection, thermal range, calibration, battery exchange, maintenance, and exception recovery define deployment.
- 05 Supply chain & global collaboration** Components, standards, developer ecosystems, and overseas delivery networks shape product velocity.

Parameter definitions and source notes

Public product specifications are preserved with their original scope. Company claims are labeled and should not be treated as independent certification.

BODY

Dimensions describe overall size unless a product page specifies a different posture. Mass may exclude tools or payload. DoF follows each company's counting convention.

PERFORMANCE

Payload may mean rated, continuous, peak, per-arm, or system load. Speed may refer to body, joint, or end-effector. Runtime depends on task and battery configuration.

TASK METRICS

Throughput, success rate, and task time require a defined object set, test duration, environment, and recovery rule. Public demonstrations and internal tests are not identical.

LAUNCH LANGUAGE

Launch, debut, offline debut, and first WRC appearance are different. RoboParty's WRC 2026 participation is recorded as its first WRC appearance; prior WAIC participation is separate.

SOURCE BASE

WRC official exhibition and product materials; company product pages and releases; Xinhua; Beijing Daily; The Beijing News; Jiemian News; STAR Market Daily; DoNews; and other named sources retained in the underlying ROBOATLAS.AI research file.

All WRC robot launches are now indexed on ROBOATLAS.AI

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