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INFORMATION BROCHURE

CURALIS24

Our slogan:
Different from everyone else By design



About Us

INDEPENDENT STRATEGIC SYSTEM PARTNER FOR ROBOTIC-, DRONE-,
AUTOMATION- & HYGIENE SYSTEMS

Holistic, end-to-end system solutions for healthcare, industry, mid-sized businesses,
and large enterprises.

No products. No individual components. Just fully integrated, intelligent full systems.

What makes us special:

- System provider & system integrator – not a product seller
- Healthcare + industry + enterprise + infrastructure from one single source
- Robotics, AI, hygiene, sustainability & processes seamlessly integrated
- ISO:9001 certified quality & validated hygiene standards
- In-house banking expertise for financing & risk management
- Public funding strategies (municipal · state · federal · EU)
- International operations & strong partnerships
- Dedicated quality management, back office & customer support

Our Philosophy:

We don't think in products

We don't think in projects

We think in systems — and in responsibility

Welcome to our family

Managing Directors:

Murat Ural & Nejat Catalbas

Independent Strategic System Partners

Expertise. Trust. Systems. Vision.



Curalis 24 GmbH

Robotics solutions are no longer a luxury, they are core components of modern laboratory and clinical operations.

They enable high-precision analytics, relieve qualified staff, and ensure continuous availability, especially during off-hours.

We focus on three key areas: laboratory robots, service robots & true 24/7 operating models.

All manufacturer-independent and eligible for public funding.

Service Robots & Automation

Efficiency in Transport and Logistics

Service robots take over tasks that consume time but create no direct medical value - **such as the transport of samples, materials, and consumables.**

Key benefits:

- Staff relief – fewer walking distances, more time for patient care and analysis
- Hygiene & safety – no manual transport, reduced risk of contamination
- Seamless integration – autonomous navigation through labs and hospital corridors, automatic docking at charging spots, and full alignment with existing workflows

The result:

Faster processes, reduced workload, and higher operational efficiency.

Robotics Solutions

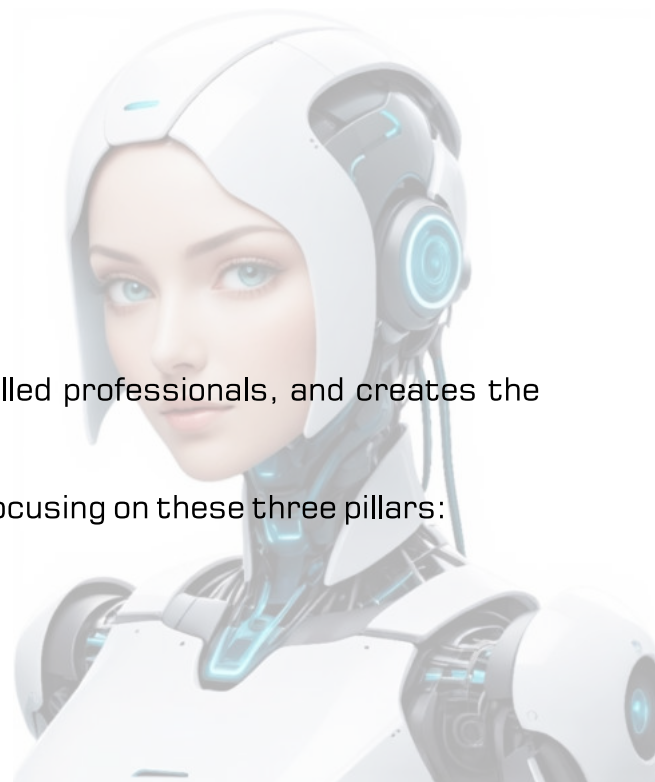
for Laboratories & Clinics

Robotics is no longer the future, it's the present.

It enables efficient workflows, reduces pressure on skilled professionals, and creates the foundation for reliable diagnostics around the clock.

Our manufacturer-independent robotics solutions are focusing on these three pillars:

- **Individually configurable**
- **Modular and scalable**
- **Eligible for funding**



Laboratory Robots

Automated Precision in Everyday Lab Operations

Laboratory robots handle tasks that are still often performed manually today:
sample intake, sorting, instrument loading, labeling, and archiving

The advantages are clearly apparent:

- Reduced error rates through standardized processes
- Higher throughput, even during peak workloads
- Flexibility through modular systems that grow with demand

From small hospital labs to highly specialized high-volume central laboratories - laboratory robots ensure consistent quality and create valuable capacity for medical professionals.

24/7 Operation & Charging Management

Always Available

Laboratories and clinics do not operate from 9 to 5. And this is exactly where robotics delivers its greatest value.

Robotic systems are ready for use at all times. Intelligent charging management ensures continuous availability through:

- **Automatic docking stations**
- **Predictive energy management**

Redundant systems for maximum operational reliability, fast diagnostics, and reliable operation at night, on weekends, or on public holidays.

Funding & Financing

Unlock Opportunities / Secure Investments

Robotics and automation are eligible for public funding — but only when the right programs are identified and applications are professionally prepared. We support you with this:

- Identification of suitable funding programs (regional, national, EU)
- Strategic financing advice: purchase, leasing, or pay-per-use
- Business case development and ROI calculations

This creates a solid foundation for investments that pay off quickly while significantly reducing your financial risk.



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Compact in size / Comprehensive in capability

All-in-One / One Robot for All

Phantas is a commercial floor-cleaning robot, creating exceptional versatility and usage across multiple surface types with four integrated cleaning modes:

- Vacuuming
- Sweeping
- Scrubbing
- Dust mopping
- Wet cleaning

Phantas automatically detects different floor surfaces and adjusts brush height accordingly, protecting floors while delivering optimal cleaning results.

Vacuum Mode

The high-end professional robot automatically activates vacuum cleaning mode before transitioning onto carpeted surfaces. This advanced technology ensures both floor protection and outstanding cleaning efficiency.

Phantas requires no manual maintenance. It autonomously connects to its docking station, where it recharges, refills clean water and disposes wastewater.

- Optional Features for Maximum Autonomy
- External water tank trolley for extended cleaning cycles
- Automatic return to charging station for uninterrupted operation
- Sustainable & Cost-Efficient Cleaning
- Up to 70% more efficient than conventional cleaning solutions
- Reduced water and energy consumption through intelligent dosing
- Minimal maintenance thanks to automated functions

Key Features

Cleaning Functions:	4-in-1: vacuuming, sweeping, scrubbing, mopping; wet & dry cleaning; ideal for complex environments.
Application Areas:	Optimized for small to medium-sized spaces: offices, hotels, care facilities, commercial properties, rental units.
Mobility & Agility:	Ultra-compact and highly agile — cleans efficiently under tables, shelves, in narrow corridors, and complex room layouts.
Navigation & Sensors:	Advanced AI navigation, 3D sensors, camera fusion, precise mapping, and excellent obstacle detection.
Maintenance & Operation:	Modular design and intuitive operation, ideal for changing environments and complex floor plans.
Strengths:	Perfect for complex layouts, mixed-use spaces, high flexibility, and professional-grade performance.

Key Specifications & Technical Data

- **Dimensions & weight:** 540 × 440 × 617 mm (L × W × H), approx. 48 kg (empty)
- **Cleaning performance:** up to 700 m²/h (theoretical max. 950 m²/h for scrubbing/mopping)
- **Working width:** 410 mm (vacuum/sweeping), 330 mm (scrubbing)
- **Tank capacity:** approx. 11.5 L clean water, 10.5 L wastewater, 0.7 L debris container
- **Battery runtime:** approx. 4.5 h (scrubbing/vacuuming), up to 18 h (sweeping)
- **Charging time:** approx. 2 hours
- **Navigation & sensors:** LiDAR, 3D depth cameras, RGB camera, anti-collision sensors, SLAM navigation
- **Special features:** 0 mm edge cleaning, automatic stain detection and targeted spot cleaning (Auto Spot Cleaning)
- **Noise level:** < 65 dB
- **Control interface:** 7-inch touchscreen, Intuitive Operation, ideal for changing objects and complex room layouts



KettyBot helps you attract new customers while serving as a mobile advertising platform. Powered by artificial intelligence, it detects people, approaches them proactively, and presents your offerings in an engaging way.

KettyBot also acts as a personal guide, escorting visitors directly to their desired destination.

Gastronomy:

Enables the delivery of

- Used Dishware
- Clean dishes
- Towels
- Additional supplies

Ideal for restaurants and hotels.

Waiting Areas:

Welcomes visitors in public offices and service facilities.

- Provides
- Snacks
- Beverages
- Additional services.

Trade Shows & Catering:

Delivers

- Drinks
- Snacks
- Information materials

Directly to guests and exhibition booths. Actively interacting with visitors.

Shopping Centers:

Assists shoppers with flyers and floor maps.

Offers small appetizers and uses the large display to showcase promotions, events, campaigns and more.

Key Features & Technical Specifications

- **Dimensions (L × W × H):** 435 × 450 × 1120 mm
- **Weight:** approx. 38 kg
- **Payload:** 10 kg per tray (total approx. 30 kg)
- **Battery capacity:** 20 Ah
- **Battery runtime:** up to 9 hours
- **Charging time:** approx. 3.5 hours
- **Maximum speed:** 1.2 m/s
- **Navigation:** Dual SLAM (Laser SLAM & Visual SLAM) with 360° sensor coverage
- **Cameras:** 2 RGBD depth cameras, 1 infrared camera, 360° fisheye camera
- **Advertising display:** 18.5-inch screen
- **Minimum passage width:** 52 cm (context-dependent)
- **Obstacle clearance:** up to 5 mm



Sh1

The Intelligent Scrubber Dryer

Hand-guided upright scrubber dryer

The SH1 is a compact upright scrubber dryer, ideal for greasy and dirty environments. It combines the deep-cleaning performance of a professional manual scrubber dryer with the ease of use of a traditional mop — delivering spotless clean results.

Perfect for commercial spaces and high-traffic areas, the intelligent Pudu SH1 goes beyond floor cleaning. It effortlessly cleans hardly reachable areas under tables, in difficult corners, upholstery, and even vertical glass surfaces.

The SH1 simplifies cleaning by spraying water and detergent, scrubbing, and drying wastewater simultaneously. With multiple cleaning modes and versatile applications for different scenarios, it operates sustainably and is up to 70% more efficient than conventional mopping methods.

27 KG

brush pressure

350 rpm

brush speed

70 %

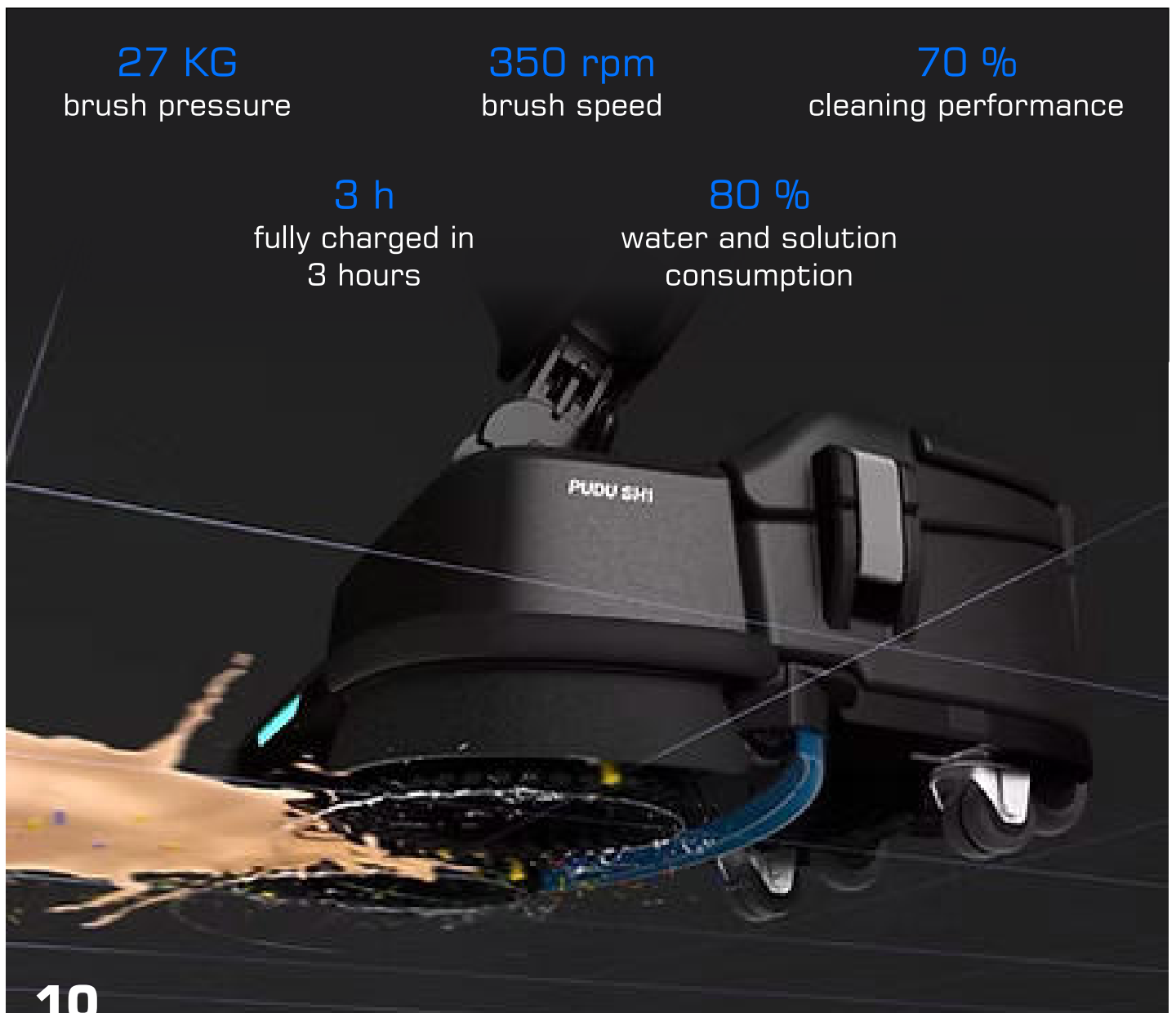
cleaning performance

3 h

fully charged in
3 hours

80 %

water and solution
consumption



Fast • Thorough • Reliable
Efficient Cleaning Performance

Technical Specifications

Dimensions

490*530*1.200 mm

Dirty water tank

4 L

Clean water tank

4 L

Charging time

2,5 hours

Cleaning performance

1.100-1.600 m²/h

Weight

27 kg

Volumen Frischwassertank

4 l

Operating time

Standard mode: 70 min

Eco mode: 100 min

Battery capacity

18 AH



VSLAM+

Unlimited spatial coverage with uncompromising cleanliness: by combining VSLAM and LiDAR, the robot navigates complex environments with high precision — without the need for QR codes.

With AI-powered spot cleaning, it covers areas of 5,000 to 8,000 m², delivering intelligent efficiency gains in large-scale facilities.

Spot Cleaning

Targeted cleaning for precision and efficiency: Using AI-based image recognition and dynamic route planning, the system detects common contaminants such as coffee spills, sauces, and puddles in real time, instantly generating optimized cleaning routes.

With a **cleaning rate of 1,500–3,000 m²/h**, it ensures faster response times and superior area coverage.

AI-Controlled Cleaning Intensity

Stubborn stain detection

Identifies persistent stains and automatically increases cleaning power for deeper, more effective results.

Floor cleanliness monitoring

Continuously assesses contamination levels and automatically switches modes — Eco mode for clean areas, deep cleaning for heavily soiled zones. That leads to optimized water and energy consumption.

Floor type recognition

Automatically adapts cleaning modes to the surface: sweeping and vacuuming on hard floors, vacuum-only mode on carpets — ensuring optimal dust and debris removal.



Technical Specifications

Operating voltage

23V~29.2V DC

Battery type

Lithium iron phosphate (LiFePO₄)

Battery capacity

50 Ah

Charging time

approx. 3 hours

Runtime

Scrubbing: 5 hours

Sweeping & vacuuming: 5 hours

Carpet vacuuming: 4 hours

Quiet mopping: 9 hours

Cleaning functions

Kehren, Staubsaugen (von Teppichen),
Staubwischen, Schrubben

Weight

75 kg

Dimensions

629 x 552 x 695 mm

Display

10.1-inch LCD screen

Noise level

<75 dB

Threshold clearance

20 mm (non-cleaning mode)

8 mm (cleaning mode)

Cleaning width (with side brush)

500 mm

Cleaning efficiency

700-1000 m²/h (full cleaning)

1500-3000 m²/h (spot cleaning)

Dustbin capacity

2,5 L

6 l (dust bag)

Water tank capacity

Clean water: 15 L

Wastewater: 15 L

Navigation

LiDAR positioning and visual fusion

IP protection class

IPX4





U·Lab MOBILE

The mobile robotics
solution for your laboratory.
Relieves staff, improves result quality,
and increases throughput.



Pharma



Medical



Food & Cosmetics



Research

WHAT CAN ULAB MOBILE DO?

uLab MOBILE is a mobile, collaborative robotics solution that fully or partially automates a wide range of manual laboratory processes. uLab MOBILE integrates seamlessly into existing workflows and on-site setups.

PRE-ANALYTICS

Sample transport from sample intake site to workstations
Sorting, organizing, and optional opening of samples
Sample preparation e.g., labeling or intelligent prioritization
Loading and operating peripheral devices such as centrifuges and analyzers
Automatic replenishment of reagents for diagnostic systems

ANALYTICS

Performing sample analyses and **reflex tests**
Pipetting
Opening and **closing** various sample formats
Fill-level measurement

POST-ANALYTICS

Sample archiving
 Sample disposal



THE TECHNOLOGY BEHIND

- 1. Autonomous navigation** using advanced sensors and navigation technology for safe and directed movement in complex laboratory environments.
- 2. uGO software** with standard APIs allows an easy networking and integration with a variety of laboratory equipment such as diagnostic analyzers and centrifuges.
- 3. Task and mission management** for automating complex and dynamic workflows.
- 4. Intelligent prioritization** ensures that critical tasks are handled first.
- 5. Human-robot collaboration** with functions such as audio recognition, intelligent chatbot, and voice control allows simple and intuitive operation through the laboratory staff.
- 6. Modular architecture** with interchangeable grippers and storage modules.
- 7. Maximum operational and data security** through advanced sensor technology and comprehensive certifications.
- 8. Recognition of colors, landmarks, and bar/QR codes.**

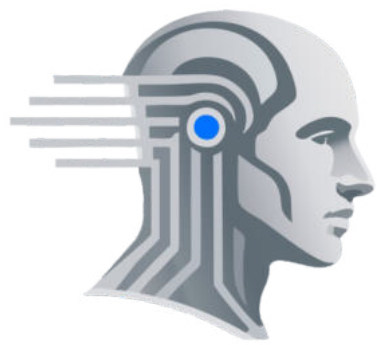
*A startup company powered by over
50 years of combined experience!*



Founder and Managing
Director Murat Ural



Founder and Managing
Director Nejat Catalbas



CURALIS24

Ready for Your Robotics Solutions?

Let's discover together which systems are the right fit for your organization or facility.

If you have any questions about our products or solutions, our team is here to help.

Get in touch with us.
We look forward to supporting you.



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