PRODUCT CATALOG

AN INNOVATIVE MOVEMENT, BY SPECHTLAB.



SpechtLab[™]

SPECHTLAB.COM

SpechtLab

Specht-acular results with higher accuracy.





To the Center of Spechtacular Innovations.

Welcome to **SpechtLab**, a leading brand that specializes in cutting-edge measuring instruments with state-of-the-art Al-based vision systems. Our company was founded in 2019 with a mission to develop imaging technology and create top-quality optical measurement products that leverage new and innovative technologies. Our products are widely



used in a range of industries, including steel and non-ferrous metal production and processing, chemical, cement, glass, scientific research, and others. With a global client base, SpechtLab is dedicated to providing cutting-edge solutions that meet the needs of various industries worldwide.

> MEHMET EMİN CÜRMEN Founder & General Manager



WHO ARE WE?

"We produce innovative, digitally-integrated measurement systems that boost efficiency of production facilities from any industry, help them lower the risk of malproduction, and accelerate their production rates."

SpechtLab, established in 2019, is a high-tech enterprise specializing in the R&D and market expansion of measurement devices with artificial intelligence-based vision systems.

We are committed to the development of imaging technology and optical measurement products, pursuing high quality and new technologies. Our products are widely used in the production and processing of steel and non-ferrous metals, chemical, cement, glass, refractory materials, coking, crystal material production, medium and high frequency induction heating, plasma heating, microwave heating equipments, vacuum equipments, scientific research and many other industries all over the world.

OUR VISION

TAS

Our ideal is to transform the entire iron and steel industry by helping them achieve perfection within their production, and to create the best working environment for passionate and talented engineers.



SpechtLab

OUR MISSION

We will achieve that vision by embracing challenges, never being afraid of taking risks, making room for never-ending improvement and hardwork, making room for freedom to fail and learn, laser focus on research and development, and staying on the track of science.



We are highly sensitive about what makes sense for your future.

SpechtLab

SpechtLab^{*}

It makes sense to develop the most sensitive technology ever.

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- 1.2. SPECHTLAB PM SERIES Slab Profiler
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- 1.4. SPECHTLAB WG SERIES Board Measuring System
- 1.5. SPECHTLAB HDS SERIES Hole Detection System
- 1.6. SPECHTLAB OCR SERIES AI Based Optical Character Recognition System
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2. COOLING HOUSING UNITS

2.1. SPECHTLAB LC ve AC SERIES - Water and Air Cooling Housing Units





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MEASURING SYSTEMS

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High precision, High accuracy, High speed.

PM SERIES

2D/3D Laser Profiler



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PM SERIES 2D/3D LASER PROFILER

SpechtLab PM is a series of 2D/3D profile sensors that provide highresolution and real-time height, width and position measurements using laser triangulation. Lightweight and with IP65 protection class, these profile sensors are suitable for use in steel, automotive, white goods, electronics, semiconductors, etc. Ideal for in-line measurement, inspection, identification and guidance applications in factory automation industries. Our company specializes in developing advanced sensor technologies and 2D/3D image processing systems, fully compliant with Industry 4.0 requirements and equipped with the latest communication standards. With our more than 30 existing products, we successfully detect, examine and measure objects by collecting and evaluating data through appropriate interfaces.

Our smart profile sensors go beyond learning thanks to the ability to think and act independently.

Application Areas

- Surface profiling and inspection
- Size measurement and verification
- Detecting and classifying errors
- **Robotics and automation**
- Quality control and process monitoring
- Alignment and positioning

High Precision Measurements:

Provides the opportunity to obtain accurate and detailed measurements for critical applications with precision up to 20 µm.

Fast and Efficient Performance

Increases productivity and reduces cycle times with efficient data collection.

Wide - Range Applications

Outstanding performance in a variety of industries including manufacturing, quality control, robotics and automation.

User-Friendly Interface:

Optimizes your workflow and simplifies sensor installation.

Real Time Data Analysis:

Provides the ability to make informed decisions to ensure optimal product quality and process control.

Sturdy and Durable Design:

Offers long-lasting performance and reliability.

Flexible Connection Options:

Provides seamless integration into your preferred network or control system.

Customizable Solutions: Offers customized solutions for your specific needs.





- Measurement range and time: 200-600mm / 10ms
- Laser line lenght: Max. 140mm
- Integrated analog interface
- Communication with PLC, SAP and Level -2
- Configuration via Fast/Gagabit Ethernet
- Logic processing option up to 4 Measurement Areas / 8 **Detection Areas**
- Activation Input, Trigger Input, Cascaded Output



SpechtLab





The most

accurate results

in measurement



Solutions that minimize risk.

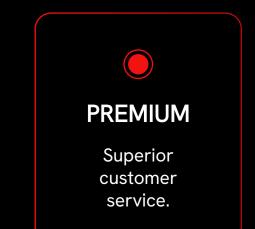
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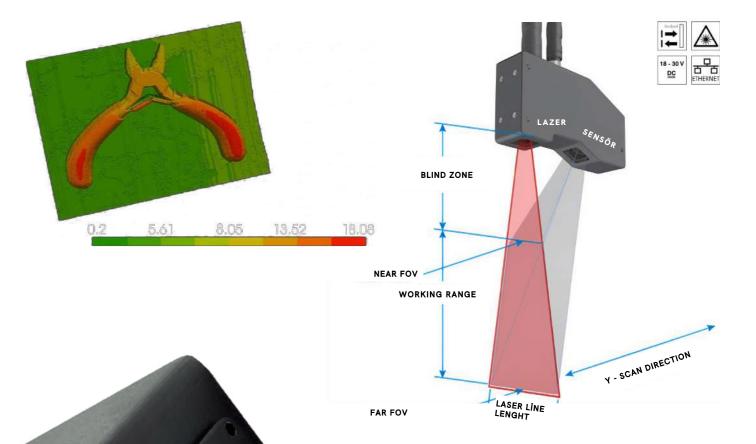


OPTICAL DATA

Measurement Range - Z: Optional (60 to 2100mm) Measurement Resolution - Z: 25 - 1000µm Laser Line Range - X: 65 - 575mm Measurement Resolution - X: 55 - 439µm Scanning Speed: 400 - 650 µm/sq Laser Light: Red: 650nm Blue: 450nm Laser Class 3B: 15mW - 650nm Laser Class 3R: 10mW - 450nm 25mW - 650nm 20mW - 450nm

OPTIONS

Water/Air Cooling: Optional Radiation Protection: Optional Water Control System: Optional



WORKING CONDITIONS

Operational Ambient Temp: 0 - 50°C Storage Temp: -20 - 70°C Operating Voltage: 18-30V DC

Interface: Ethernet TCP/IP

Short Circuit Protection: Yes

MECHANICAL DATA

Housing: AISI 310

IP65

Water & Air Cooling Options

Connection Type: M12 x1

RJ45 x1

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- Temperature Control: Optional (PT100, Relay)

FOR DETAILED **INFORMATION** CONTACT US.

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Easy integration, High efficiency, Perfect solution.

PM SERIES

Slab Profiler



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PM SERIES SLAB PROFILER

Spechtlab PM Series Slab Profiler is an advanced measurement system that measures the width, edge profile, convexity/concavity, center deviation and both edge and center thicknesses of slabs or plates. The system is suitable for installation in cold or hot applications, before or after the breaker or at the reheat furnace inlet.

The system performs direct measurement of the shape of slabs using two lasers and captures the actual cross-section and edge thickness simultaneously. It increases edge scrap efficiency in hot strip milling by providing information about the Slab's edge profile, correct edge thickness and width before it enters the rolling machine.

With the instant and accurate data offered by the system, you can maximize quality control and process analysis in your production line.



Real 3D Non-Contact Measurement:

Non-contact dimensional 3D measurement of slabs or plates.

Waste Reduction:

Reducing wastage caused by non-conforming production.

Fast Recognition:

Rapid recognition of slabs that are incompatible in shape and size.

Production History:

Trend charts showing production history.

Providing Instant Data:

Providing instant slab size information to the rolling machine

Damage Prevention

Preventing damage to hot strip rolling machine edge rollers.

Control Information: Providing information to control adjustable moulds.

Quick Detection

Rapid detection of concavity, convexity, edges and other edge profile anomalies.

Easy Integration:

Easy integration with PLC, SAP and process control systems for Level 2 communication.





OPTICAL DATA

Working Range- Z:	6502200mm
Measurement Range - Z:	750mm
Measurement Range - X:	225575mm
Resolution - Z:	230 439µm
Resolution - X:	655 1095µm
Resolution - Y (Scanning Speed) :	400 650µm
Light Source :	Laser (BLUE)
Wavelenght :	450Nm
Laser Class:	3B

WORKING CONDITIONS

Operating Temp : 0 - 400°C (with water cooling) Storage Temp: -20 - 50 °C Operating Voltage: 18-30V DC Operating Current (Maks): 950 mA Short Circuit Protection : Yes Interface : Ethernet TCP/IP

Transfers Speed: 100/1000Mbit/s

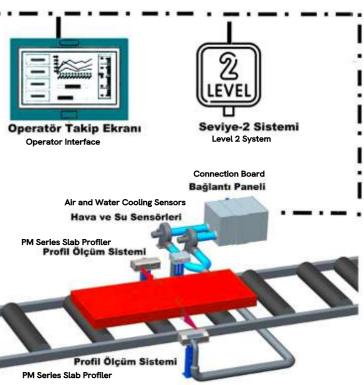
MECHANICAL DATA

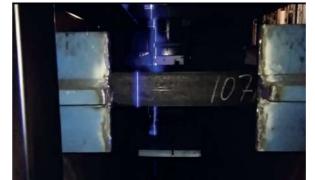
Housing: AISI310 Protection Class: IP65 **Connection Type:** M12 x 1 ; 12 pin **Ethernet Connection Type :** M12 x 1 ; 8 pin X code Cam **Optical Cover :** (IR/Bandbass Filter) Weight: 4.620 g.

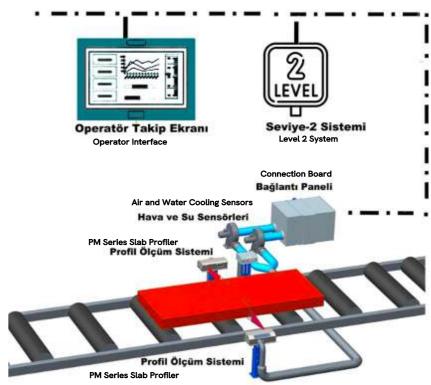
OPTIONS

Temperature Control: PT100 Air Cooling: Yes Water Cooling Yes Radiation Protection: Yes Flow Control System: PNP/NPN











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Maximum control, minimum loss in production.



WG SERIES

Stereoscopic Width Gauge

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SPECHTLAB WG SERIES WIDTH GAUGE

In the constantly developing and changing iron and steel industry, quality control and operational efficiency are becoming increasingly important. To respond to these demands, SpechtLab offers a unique solution to steel manufacturers and many other industries, the WG Series Width Gauge.

The WG Series is a state-of-the-art measuring system designed to precisely measure the width and center deviations of steel sheets, coils, plates and strips, as well as a variety of other materials. Using advanced optical sensors and intelligent algorithms, this system delivers micron-level precision, enabling manufacturers to confidently meet the most stringent industry standards.

WG series Width Gauge has been developed for instantaneous, uninterrupted and non-contact width measurement and quality control during production. The combined camera system to be mounted on the line provides stereoscopic images. The stereoscopic image consisting of two cameras allows a precise measurement regardless of depth, thickness of the material and the rebound effect of the material as it moves on the role.

Product illumination is provided by Backlight and Frontlight. The software algorithm developed by SpechtLab enables the measured value to be transferred to PLC, SAP and Level - 2 systems via Ethernet/RS485 line.

Applications

- Width detection
- Center line detection
- Detection of deviation from the center
- **Diagonality Detection**
- Detection of edge positions
- Quality control and process monitoring Alignment and positioning

Precision and Reliability:

Prevents production errors by detecting even the slightest deviations with 0.25mm precision.

Non-contact measurement:

Offers precise measurements and communication with PLC, SAP and level 2 systems without damaging the products.

Real-time feedback:

Instantly detects deviations and allows making the necessary adjustments.

Efficiency and Customizability

With a line speed of up to 600 mpm, allows instantaneous measurements on lines flowing at high speeds.

Customizable settings:

Adapts to different material types and sizes.

Data-Driven Decision Making:

Provides amplitude variations, trends and statistical information with comprehensive reports and analysis.

Process improvement:

Allows indentifying and resolving potential problems in advance.

Increased production:

Increases production by optimizing material usage and preventing errors.









RISKLESS

Eliminates the risk of improper results

INTELLEGENT

Software algorithm developed in-house.

ACCURATE

Accurate results regardless of depth.

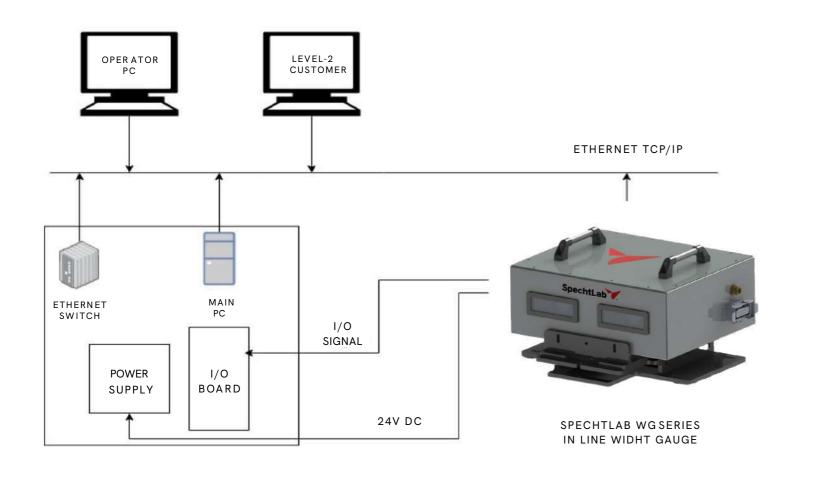
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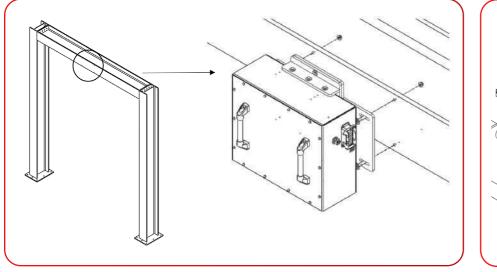




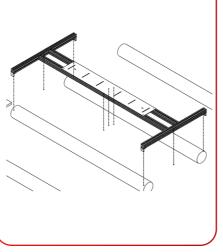
Operating Voltage : 24V DC

Protection Class: IP65

Operating System : Windows 10 Pro



EASY INSTALLATION



EASY CALIBRATION





- Working Range: 450 2200mm Measurement Precision : +/- 0,25mm Line Speed: Up to 600mpm Installation Height: 3625mm Camera (x2): 4096px camera, 8/12bit Monochrom 24KHz/GigE Connection : Ethernet TCP/IP Signal I/O Analog Output: 2 Analog Output: 4-20mA Analog Input: 2 Analog Input: 4-20mA Digital Output: 4 Digital Output: 0-24V DC Digital Input: 2 Digital Input: 24V DC **Operating Temp :** 0-50°C (Without water cooling)) 120°C (With water cooling: 10l/min 25°C, 20lmin 35°C) Air Cooling : Keeps optical surfaces dry and clean.



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Maksimum control, Minimum loss.



WG SERIES

Board Measuring Sensor

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SPECHTLAB WG SERIES

Developed by Spechtlab, the WG Series Board Measuring Sensor is a groundbreaking solution for quality measurement and fully automated process control in wood-based panel production. Designed for in-line panel measurement, this system utilizes advanced image processing technologies to measure the dimensions and diagonal measurements of panels with high precision. The acquired measurement data is employed to optimize production line processes in real time and significantly reduce the panel rejection rate.

Seamless Integration with Existing Systems:

The ability to seamlessly integrate with existing systems enables rapid and effortless retrofitting of your production line without disrupting operations.

Compact Design for Space-Efficient Installation:

The compact design of the system eliminates the need for additional installation space, ensuring a seamless integration into your existing production environment.

Enhancing Process Precision and Consistency:

By eliminating errors arising from manual measurements, the system ensures enhanced process precision and consistency, leading to improved product quality and reduced waste.

Eliminating Manual Measurements for a Safer Work Environment:

By eliminating the need for manual measurements, the system contributes to a safer working environment within the production facility, minimizing the risk of accidents and injuries.

Real-time Monitoring for Minimized Panel Rejects:

By continuously monitoring the dimensions of panels, the system significantly reduces the rejection rate of non-comforming panels, leading to improved product quality and reduced waste.

Consistent High Production Quality:

By enabling the control of panel dimensions after cutting and the immediate adjustment of the knife if necessary, the system facilitates the achievement of consistently high production quality.

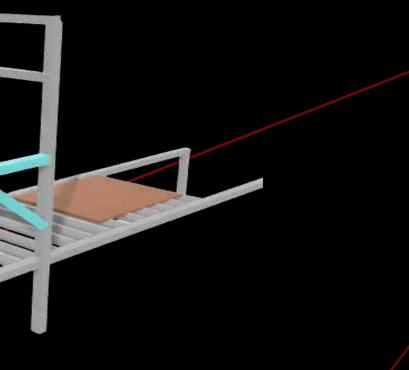
Customizable Settings:

By enabling the input of desired custom dimensions and tolerance values, the system facilitates the real-time detection of non-conformities, ensuring that panels meet user-defined specifications.

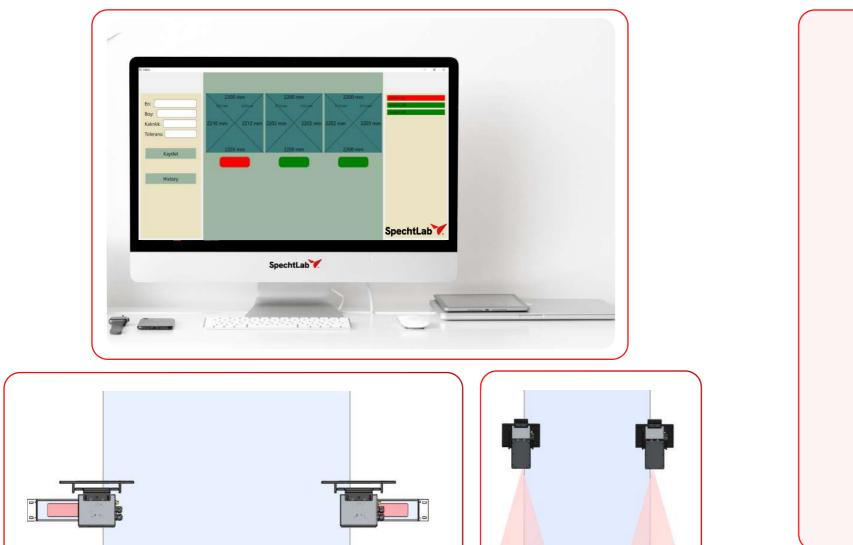
Database Process Optimization:

By analyzing measurement data obtained from production, the system enables the optimization of process parameters, leading to increased production efficiency and reduced waste.

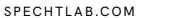












Köprü

Ölçüm Sensörleri

Var/Yok Sensörü

Aydınlatma

Enkoder



Material Widht: 500 - 4500mm Measurement Precision: 1/1000 px/mm **Production line speed:** Up to 4 m/s Installation Height: Up to 3500mm Connection: Ethernet TCP/IP Sinyal I/O Analog Output: 2 Analog Output: 4-20mA Analog Input: 2 Analog Input: 4-20mA Digital Output: 4 Dijital Output: 0-24V DC Digital Input: 2 Dijital Input: 24V DC **Operating voltage:** 24V DC Protection Class: IP65 **Operating temperature:** 0-50°C

> Air Cooling: Keeps optical surfaces dry and clean. OS: Lunix or equivalent. **Lighting:** Backlight/Frontlight (Red/Blue)

*Contact us for customized solutions.



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Extraordinary speed, excellent result.

HDS SERIES

Hole Detection System

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SPECHTLAB HDS SERIES

HDS is a high-tech optical sensor developed by SpechtLab for weld point hole detection. This sensor is designed to precisely detect the weld hole made to determine the connection point between two strips. HDS works together with BL series light emitter to ensure high accuracy and reliability. This integrated system increases quality control in industrial processes, significantly improving the efficiency and reliability of production lines.

Ultra Fast Processing:

Instant real-time detection capability at speeds up to 25m/s.

Consistent Performance:

Suppression of interference thanks to high detection area and modulated light.

Durability:

Powerful LED use for long lifespan designed for steel industry conditions.



Maximum Line Speed:	25 m/s
Minimum Hole Diameter:	6mm
lax. Distance Between Receiver and Emitter:	3000mm
Reaction time :	1 ms
Operating temperature : Protection Class :	
BL-Emitter Type:	Modulated, Red Light
Dimensions of Emitter (Length/Width) :	400/30 mm







Excellent performance in harsh environmental conditions.



OCR SERIES

Al Based Optical Character Recognition System

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OCR SERIES AI BASED OPTICAL CHARACTER RECOGNITION SYSTEM

OCR Series is a product identification (ID) recognition system by Spechtlab designed to increase production efficiency and close data gaps in highly automated production processes. Leveraging our extensive experience in image processing, we use various camera technologies and advanced processing algorithms to read product IDs.

The OCR System was developed to read product identities regardless of product type, marking technology and environmental conditions. It utilizes various industrial imaging technologies such as CCD and CMOS to provide stable imaging to achieve the highest identification rates. This system uses the power of artificial intelligence to read the identities of the materials quickly and with high accuracy. Also, allows instantly following every step in the production line.

Advantages of OCR System:

Error Reduction and Cost Saving: Provides cost savings by reducing waste in production by preventing errors such as product number confusion and charge mixing problems.

Real-Time Tracking: By tracking every material, it allows instantly monitor and control every step in the production line.

Increase Efficiency: Significantly increases overall production efficiency by streamlining production processes and reducing bottlenecks.

Artificial Intelligence Power: Provides the highest reliability by providing 98% character and 99% system-wide accuracy rate with advanced artificial intelligence algorithms

Applicable to Various Surfaces and Marking Methods:

Can be used on different material surfaces and marking methods.

Applicable to Moving Lines:

Can also be applied to fast and variable lines.

Tracking with Production Date:

Provides the opportunity to track materials according to their production dates.

Tracking by Product ID:

Provides tracking according to product IDs.

DataPool Integration:

Has a modular structure that can be expanded integrated with SpechtLab products.

Customizable Operator Tracking Screen:

Offers easy use with its user-friendly interface.

Communication with PLC System: Can communicate with all PLC, SAP and Level 2 systems in production line.

2 Year Retroactive Data Record: Provides data storage and analysis for up to 2 years

Ease of Assembly and Maintenance:

Offers easy installation and maintenance.





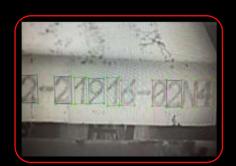
Control Type : Artificial intelligence Hardware Triggering : 24VDC Camera Resolution : 1920 x 1200 px **Connection :** Ethernet TCP/IP Signal I/O **Operating Voltage :** 230 VAC Protection Class: IP65

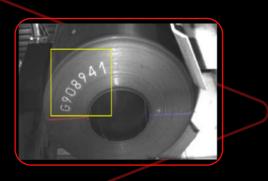
Product Types : Slab, coil, plate, pipe Marking Methods : stamped, needle punched, hot spraying, metal powder, paint/ink, labels, laser Marking Data : 1codes, characters, numbers, special characters, Analog Output: 2 analog output: 4-20 mA Analog Input: 2 Analog Input: 4-20 mA Digital Output : 4 Digital Output 0-24 VDC Digital Input: 2 Digital Input: 24 VDC **Operating Temp :** 0 °C - 50 °C (Without water cooling) 120 °C and above (With water cooling: 10 liters / minute 25 °C water, 20 liters / minute 35 °C water) Air Cooling: :Keeps optical glasses dry and clean **Operation System :** Linux, Windows 10 and later

SpechtLab Lighting System

Operating voltage : 24 VDC Protection Class : IP 65 **Operation time :** 10000 hour Type: lens with IR Cut Filter







FOR DETAILED **INFORMATION:**

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RELIABLE

99% accuracy rate throughout the system

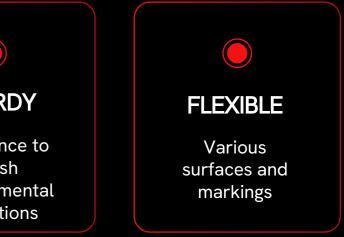
STURDY

Resistance to Harsh Environmental Conditions





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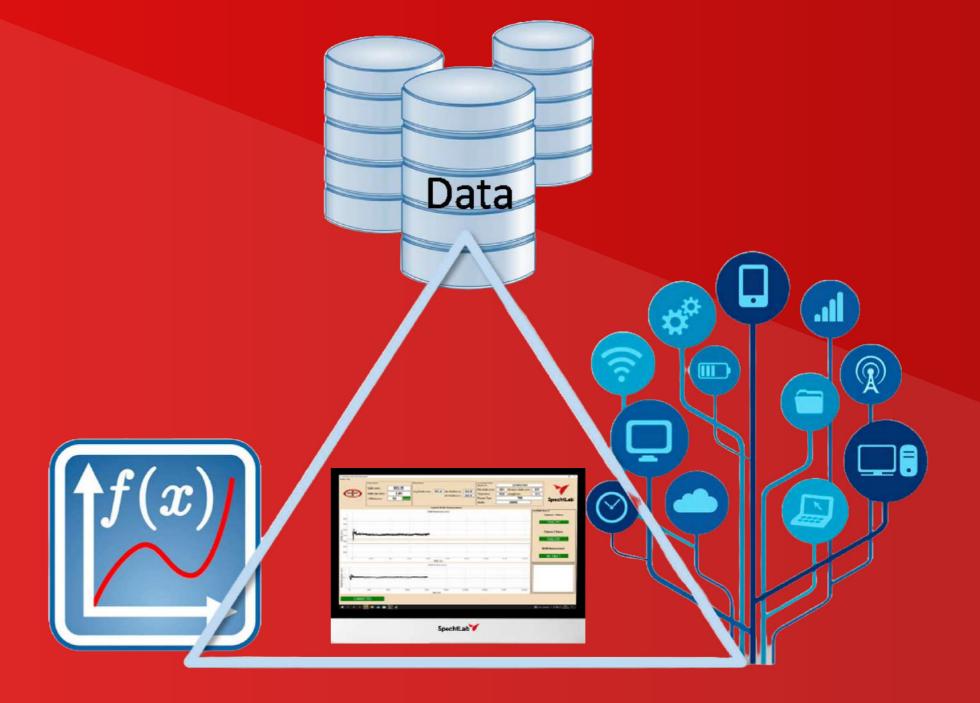




Discover the future in your data.

INDUSTRY 4.0

DataPool TM







SPECHTLAB DATAPOOL TM - INDUSTRY 4.0

We combine SpechtLab experience in the production of measurement sensors and devices with the SpechtLaB DataPool service, an innovative solution designed to upgrade your production processes to Industry 4.0 standards. Our DataPool services deliver unmatched efficiency, quality control and in-depth analysis for your production lines using artificial intelligence and big data.

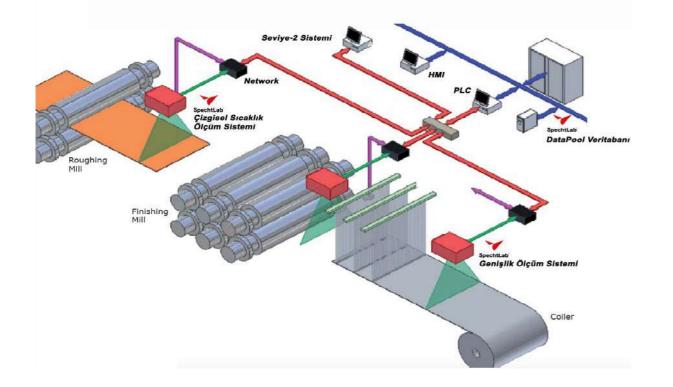
Key Features and Benefits:

Comprehensive Data Integration:

It seamlessly integrates data from all sensors and devices in your production line. It provides easy access and analysis by collecting data in a central location, thus enabling you to evaluate your production operations from a holistic perspective.

Advanced AI Analytics: •

It analyzes large amounts of data in real time using the latest artificial intelligence algorithms. It allows you to make proactive decisions by detecting patterns, anomalies and trends invisible to the human eye.



- **Real-Time Monitoring and Reporting:** It enables real-time monitoring of production metrics and performance indicators. It creates comprehensive reports that can be customized to your organization's specific needs.
- Scalable and Flexible Solutions: It adapts to the unique needs of different production environments and scales seamlessly as your operations grow. Supports a wide range of manufacturing processes and industries.
- Predictive Maintenance: Reduces downtime and maintenance costs by predicting equipment failures before they occur. It extends the life of machinery and equipment by planning maintenance activities at the most appropriate times.
- Advanced Quality Control: It constantly monitors product quality, ensuring that each product meets the highest standards. It minimizes waste and rework costs by detecting errors in the early stages of the production process.
- **Optimized Production Efficiency:** Analyzes workflow and process efficiency. Identifies bottlenecks and areas for improvement. It delivers actionable in-depth analysis to streamline operations, increase efficiency and reduce costs.







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HOUSINGUNITS

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SpechtLab

LC SERIES

WATER COOLING CAMERA HOUSING

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SPECHTLAB LC SERIES

SpechtLab LC series camera housing is designed to protect cameras in harsh industrial environments. The camera housing made of stainless steel can operate at high ambient temperatures and harsh industrial conditions. With its specially designed structure, it allows easy camera settings after installation. It provides complete cooling with industrial water or nitrogen gas.

It is used in high temperature production facilities such as iron, steel, glass and cement production facilities.



- Water and Air Cooled Camera Housing with IP65 protection class
- It enables the operator to perform rapid repairs, maintenance and installation in high-temperature areas that pose OHS risks.
- It has PoE and 24Volt connection.



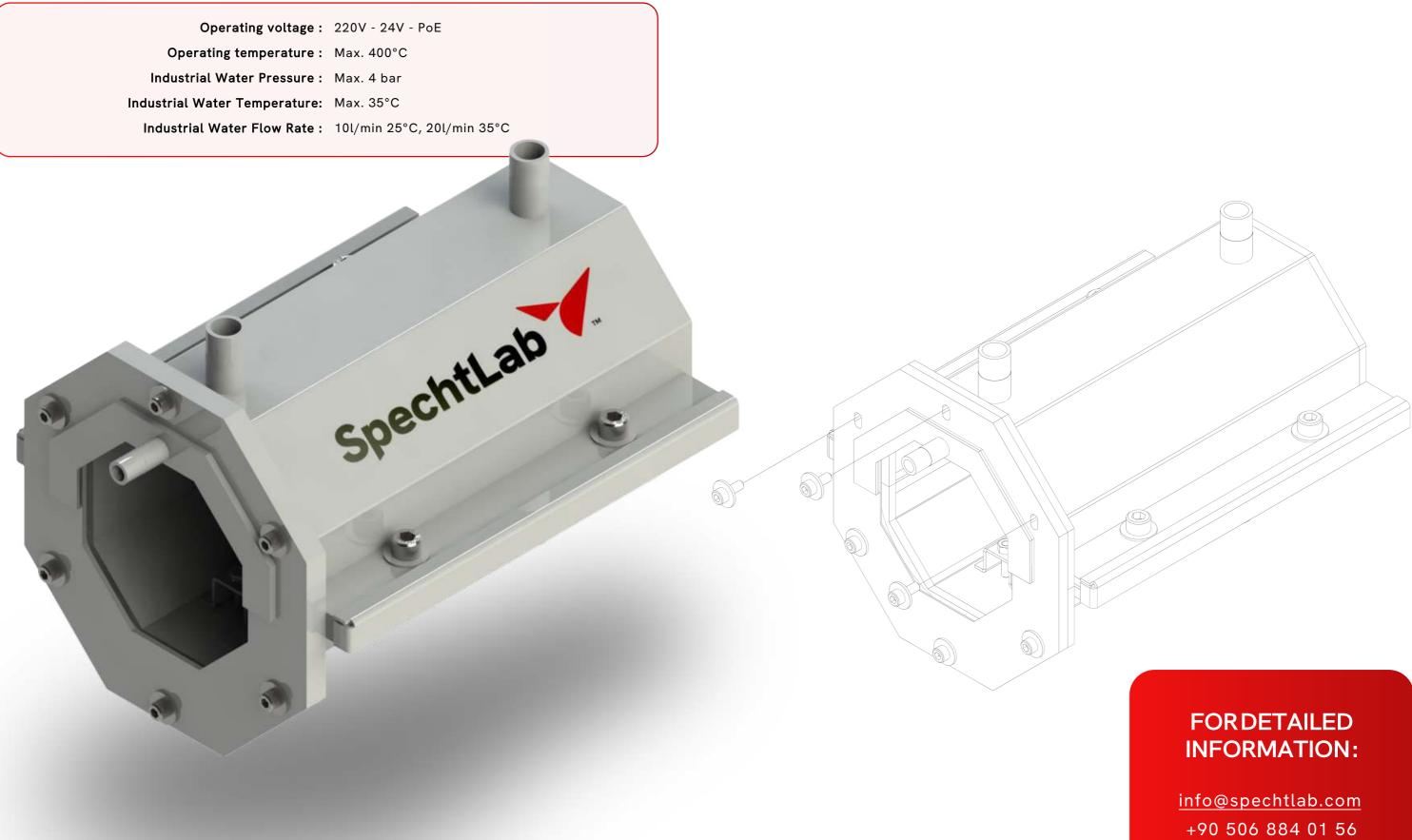
















If you would like to integrate the technology of the future into today's production, you can contact us:

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