

Agenda



COMPANY

I. Company Profile

- 1. Vision, Mission & Core Values
- 2. Facts & Figures
- 3. High-quality Products for Industrial Heat as well as Measurement & Automation Applications
- 4. Management & Team

II. Solutions for various Applications

- 1. Industrial Heat (Burners, Flue Gas Analysers, Boilers, Oil Pumps and Spare Parts)
- 2. Measurement (Level, Switching, Pressure, Temperature, Liquid Analysis, Flow and Concentration)
- 3. Automation (Inventory System, Control, Recording, Automation Systems & Monitoring)

III. Contribute to the Success of our Customers

IV. Conclusion



1. Vision, Mission & Core Values.



Our Vision:

COMPANY

Contribute to Vietnam's industry growth by supplying high-quality and efficient Industrial Equipment Made in Germany and become and remain the First-in-Mind Supplier.

Our Mission:

Combine strong technology with management, engineering and people skills as well as experience to provide optimal solutions to our Customers and continuously contribute to their success.

- Our Core Values:
 - Collaborate and Teamwork. We actively communicate and share knowledge to achieve the best results.
 - Service-oriented. We commit ourselves to Maintenance, Repair and Operations (MRO) and achieve high customer satisfaction through an outstanding after sales service.
 - Operational Excellence. We are committed to the relentless pursuit of quality and maximize the efficiency and accuracy of all our business processes.
 - Results and Accountability. We deliver measurable results and operate at the highest level of responsibility, integrity, honesty and respect.
 - Be curious. We are continuous learners and do not accept things the way they are without understanding why.
 - Passionate & Pride. We are passionate about what we do and proud of how we do it.
 - Inspire. We inspire others by demonstrating excellence in everything we do and how we do it.

HUYNH BANG

2. Facts & Figures

COMPANY Founded in: 2003 Sphere of activity: Supplier and Service Agent of Industrial Equipment Made in Europe. Legal and administrative **Huynh Bang** headquarters: **Engineering GmbH** Walleitnerstraße 2 82031 Grünwald **Huynh Bang** München Company, Ltd. Germany 36 Street no. 2, Quarter 22, Binh Trung Ward, Ho Chi Minh City, Viet Nam Employees: 18 174 m² 25 m² Office space:

3. High-quality Equipment for Industrial Heat and Measurement & Automation Applications.



Huynh Bang Company

Sales						
Industrial Heat		Measurement & Automation				
Oil, Gas and Dual-fuel Burners	-weishaupt-	Level Measurement Point Level Detection and Pressure	VEGA	Controller, Software Inventory System – Hosting Service		
Flue Gas Analysis, Pressure & Gas/Leakage Detection	€COM [®]	Temperature, Liquid Analysis, Pressure, Flow and Humidity	JUMO	Controllers, Recorders, Automation Systems and Monitoring		
Steam Boilers, Hot Water Boilers	⊜ BOSCH	Non-contact infrared Temperature	optris			
Burner Supply Pumps, Feed Pumps & Delivery Aggregates	hp _{technik}	Flow Measurement	< EM			
		Mass Flow Meters & Controllers	vögtlin instruments			
		Variable Area Flow Meter	meister 😂	Automatic Minature Fire Extinguisher		
		Gas and Air Flow	SCHMIDT®			
		Process Refractometers for Concentration	VAISALA			
		Vessel Lights Sight Glasses Vessel Closures	CANTY PROCESS TECHNOLOGY	Process & High Temperature Cameras, Patricle Size Systems Software & Hardware		

Service July 2025

4. Management understanding both Western and Vietnamese culture.







Huỳnh Đăng Khoa Managing Director

- Degree in Business Administration from Muenster University of Applied Sciences (Germany).
- Speaks fluent German, English and Vietnamese.
- Responsible for the operational leadership and the dayto-day business.



Tôn Nữ Quỳnh Hương Deputy Director

- Multi-cultural background having been educated in Vietnam, the United States and Australia.
- Degree in Management & Human Resource Management from Curtin University (Australia).
- Speaks fluent English and Vietnamese.
- Responsible for management of finance & accounting as well as human resources.

4. Team working together and supporting each other to create value for Customers



COMPANY



Sales Team



Technical Support

Finance, Accounting & Logistics





Service Team

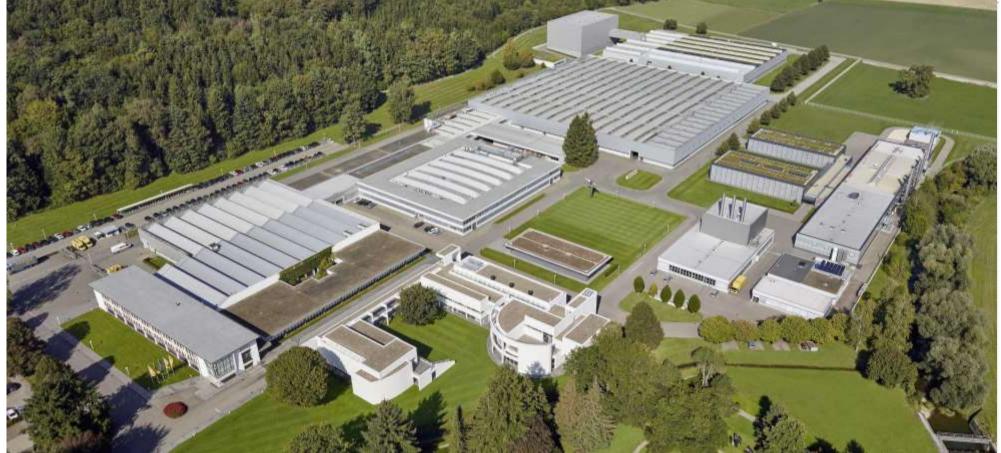
4. Team working together and supporting each other to create value for Customers.





1. Weishaupt Headquarters in Schwendi, Germany







1. Weishaupt oil, gas and dual-fuel burners.



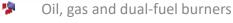
COMPANY



-weishaupt-That's reliability.

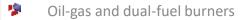
1. Weishaupt – from low to high capacity ranges.





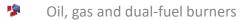
W range

- Exemplary effiency
- · Excellent emission levels
- Sophisticated technology
- Versatility: 4.5 700 kW
- Long life



WM monarch® range

- · Outstanding price-performance ratio
- Great versatility:
 20 12.000 kW
- · User-friendly concept
- Spatially variable
- Easy installation



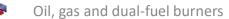
Special version ZMI – PLN – ULN

- Extended turndown range ZMI Gas burner
- Extremely low NOx values PLN ULN
 4.5 kW 11.000 kW
- · Excellent serviceability
- Long life









Burners with multiflam® technology

- Low NOx emissions
- Optimum combustion
- Safe and simple principle
- Great versatility:

700 - 23.000 kW

- Digital combustion equipment
- Long life



Industrial burners WK & WKmono

- Digital precision
- Minimal emissions
- Maximum economy
- Tremendous versatility:
 - 70 32.000 kW
- · Convenient servicing
- Long life



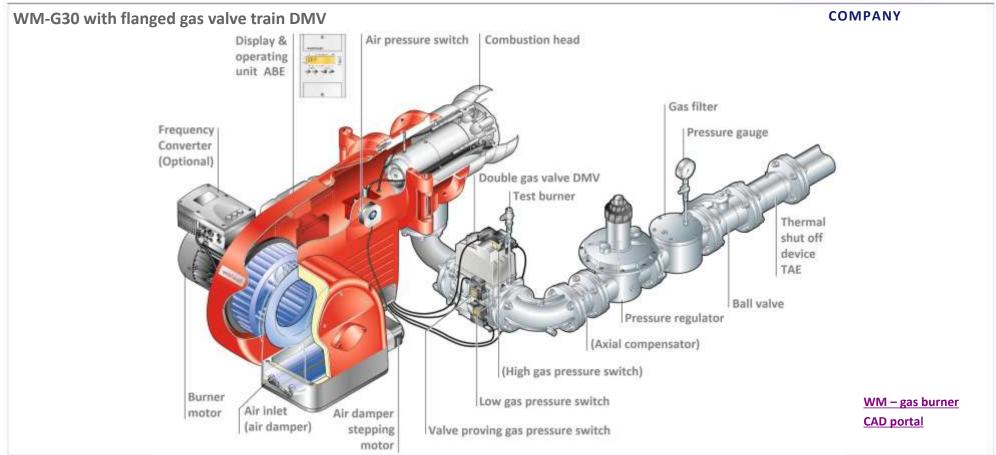






1. Weishaupt Gas Burner Monarch® WM-G10/20/30/50

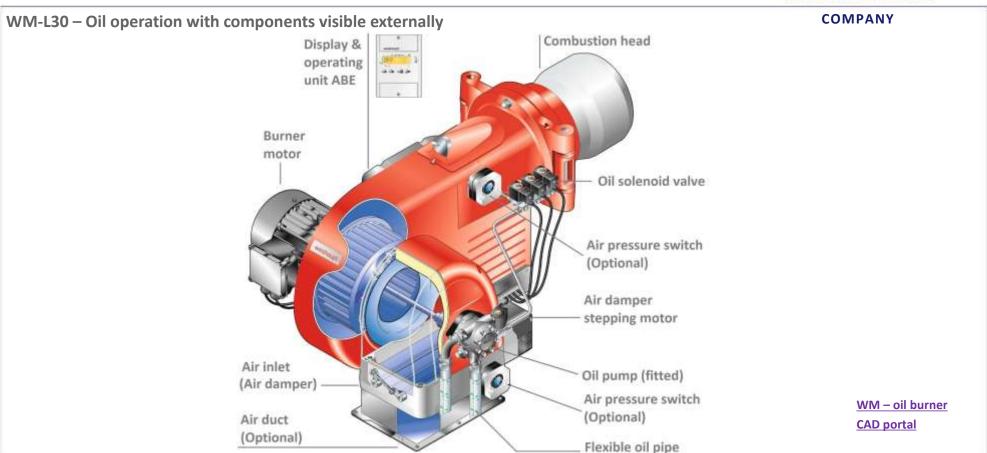






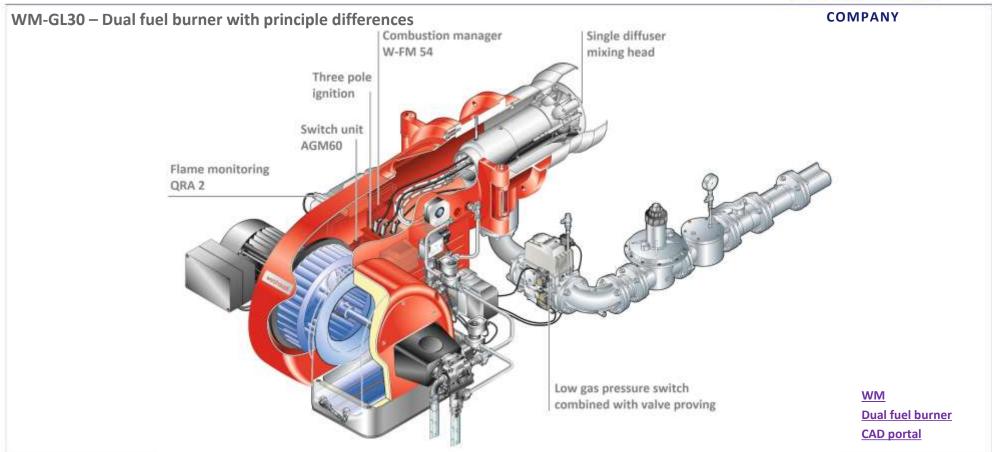
1. Weishaupt Oil Burner Monarch® WM-L10/20/30/50





1. Weishaupt Dual Fuel Burner Monarch® WM-GL10/20/30/50







1. Weishaupt: Many Applications in various Industries





Waste recycling

- Waste incineration
- Process incineration





Wood industry

- Wood and veneer drying
- Chipboard production
- Wood chip firing







Metal industry

- Smelter
- Paint drying
- Degreasing







1. Weishaupt: Many Applications in various Industries



COMPANY



Agriculture

- Grain, grass and green fodder drying
- Feed production







Food industry

- Deep frying
- Baking oven / travel ovens
- Coffee roasters
- Kilns







Textile industry

- Cloth and yarn drying
- Laundry



1. Weishaupt: Many Applications in various Industries



COMPANY



Transport

Asphalt mixing plant







Stone and soil

- Ceramics and glass industry
- Drying drums for sand & stone







1. Weishaupt with Digital Burner Technology







1. Weishaupt with Digital Combustion Management W-FM (Weishaupt – Firing Management)



Advantages of W-FM:

- High accuracy and optimal combustion figures
- Continually reproducible setting figures
- Easy handling, operating and fault history
- Integrated PID (Proportional—Integral—Derivative controller)
- Temperature / Pressure Controller
- Thermal shock protection
- Less spare parts
- Flexible communication possibilities and remote monitoring



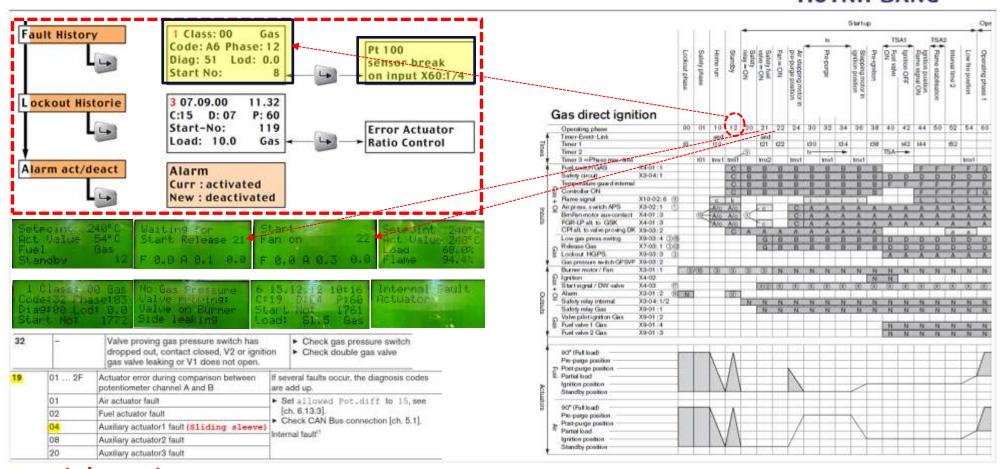






HUYNH BANG

1. Weishaupt with Digital Combustion Management W-FM for precise Error Diagnosis



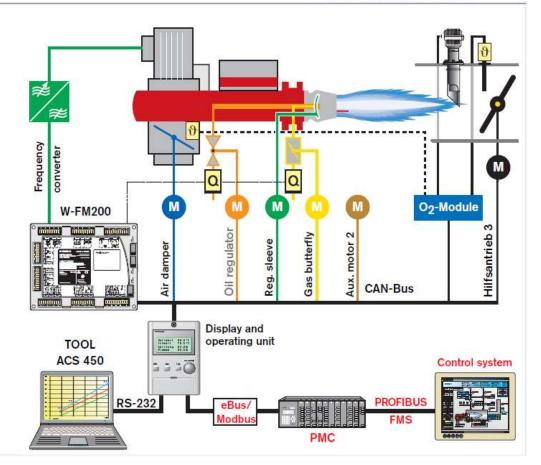


1. Weishaupt with Digital Combustion Management W-FM



From basic to high-end Applications:

- Basic oil, gas & dual-fuel burner
- VSD (variable speed drive)
- O₂-trim
- Remote control & data transfer via bus connection
- 🥏 Flue gas recirculation
- 🥏 Parallel operation, Simultaneous operation

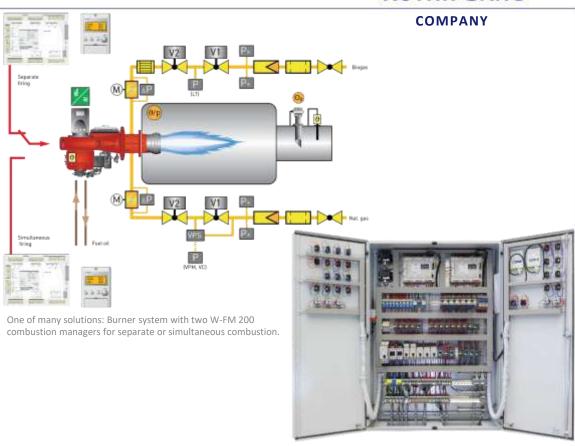


1. Special Application: Simultaneous Combustion



The use of renewable fuels demands increasingly specialised solutions:

- Combustion of two or more fuels simultaneously.
- Executions with one or more combustion managers possible.
- "On-the fly" fuel changeover possible.
- Weishaupt has own in-house control panel design, production and testing department.
- Commissioning through experienced Weishaupt technician.



1. Weishaupt burners with excellent Turndown Ratios

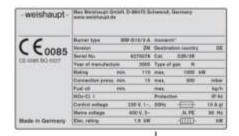


COMPANY

Burner Turndown affects Efficiency:

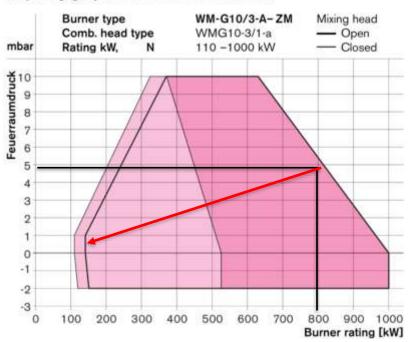
- Burner turndown is important for fuel savings especially during midand low-load conditions.
- Weishaupt gas burners have a turndown ratio of up to 1:10. In practice, still many burners operate at 1:3 turndown.
- Frequent boiler cycling also introduces thermal shock to the boiler tubes and refractory to shorten boiler life.

Name plate





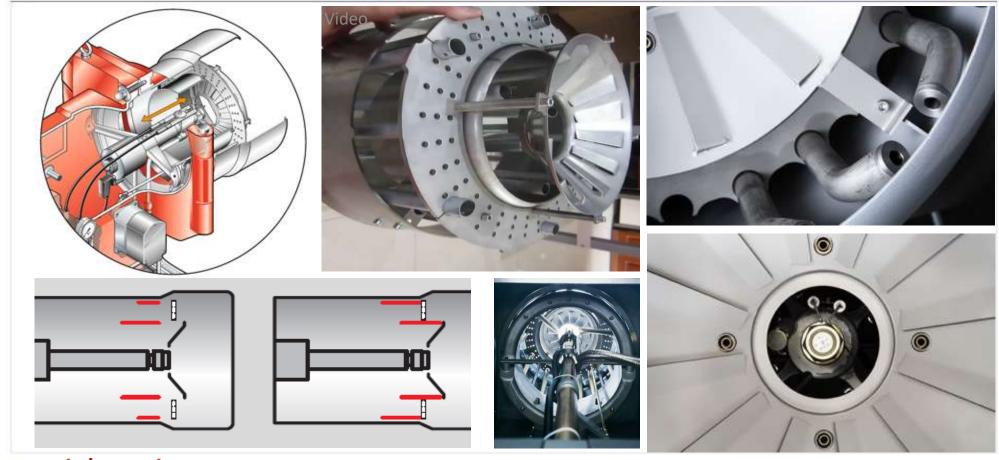
Capacity graph WM-G10/3 version ZM



WM-G10/3 version ZM with turndown ratio of **1:8** Possible min capacity of almost **100** kW at max capacity of **800** kW

1. Weishaupt burners with sophisticated Mixing Heads / Sliding Sleeves

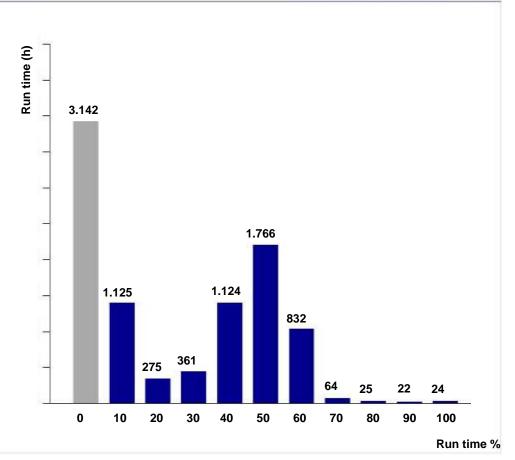




1. Weishaupt Efficiency Calculator



Boiler system	Steam (satura	Steam (saturated steam)	
Steam output	10	t/h	
Steam pressure	10	Bar	
Saturated steam temperature	180	°C	
Nominal load	6.556	kW	
Minimum heat rating	950	kW	
Boiler efficiency (nominal load)*	93	%	
Standby heat output	40	kW	
Standby heat output	-	%	
Combustion chamber resistance	12	mbar	
Flue gas side resistance	0	mbar	
Installation elevation above sea level	100	m	
Ambient temperature of plant	30	°C	



^{*} The boiler efficiency refers to the calorific value.



HUYNH BANG

1. Weishaupt Efficiency Calculator

Saving **Burner data** Modulating Burner equipment Speed control no Burner type (new) WM-G50/2-A ZM-NR Burner type (old) O₂ trim no Max. combustion Max. combustion Saving Fuel capacity 11.000 kW capacity 8.000 kW Fuel costs Nat. Gas E ~ 20.405 VND/m Min. combustion Min. combustion Saving Fuel Reduction (installation) Saving Cost [Mill VND/a] 1335 capacity 1.000 kW capacity 1.000 kW 80,000 --[m3/a] Type of operation Modulating Type of operation Modulating 70,000 Fuel Nat. Gas E 10.24 kWh/m³ Fuel Nat. Gas E 180 10.24 kWh/m³ 60,000 O₂ (Partial load) O₂ (Partial load) Vol% 6.0 Vol% 50,000 120 40,000 O₂ (Interm. load) O₂ (Interm. load) 5.5 Vol% 3.0 Vol% 530 30,000 O₂ (Full load) O2 (Full load) 2.0 Vol% 4.5 Vol% 20,000 -265 Motor rating Motor rating 19 kW 18 kW 10,000 Saving electric Energy Electricity costs ~ 3.180 VND/kWh Saving Reduction (installation) Saving Electric 50,000 --[Mill VND/a] Energy [kWh/a] 40,000 106.0 25 30,000 795 28-20.000 53.0 15 10,000 26.5





1. Weishaupt Efficiency Calculator

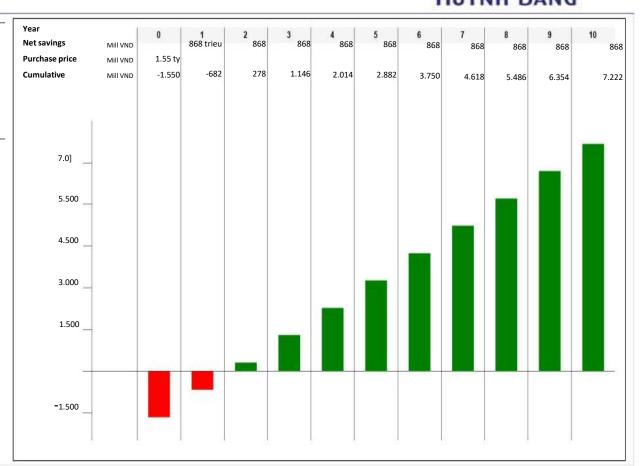
Burner and service costs					
Costs burner	~ 1.100	Mill VND			
Costs accessories	~ 400	Mill VND			
Costs service	~ 40	Mill VND			
Calculation period	10	Years			

Payback period is 1.7 Years

Payback calculation:

In the payback calculation the annual nett savings are compared to the expenditure for the investment. If the cumulative annual nett savings exceed the expenditure for the investment, the payback time has been reached.

When calculating the annual nett savings the operating costs (fuel, electricity and service costs) of the burner in its standard execution are compared to the operating costs of the burner with the desired additional equipment. The resulting difference is the annual saving. The annual nett saving is determined by deducting the accrued interest back to the time of investment.







1. Weishaupt. Commitment to Research & Development with own Test Boiler 32.000 kW





1. Weishaupt W burner references in Vietnam















1. Weishaupt WM monarch® burner references















1. Weishaupt WK burner references





1. Typical Weishaupt burner installation support & supervision





1. Typical Weishaupt burner installation support & supervision







1. Weishaupt burner commisioning with end-user and often system integrator





1. Huynh Bang can also offer customer training for their burners.







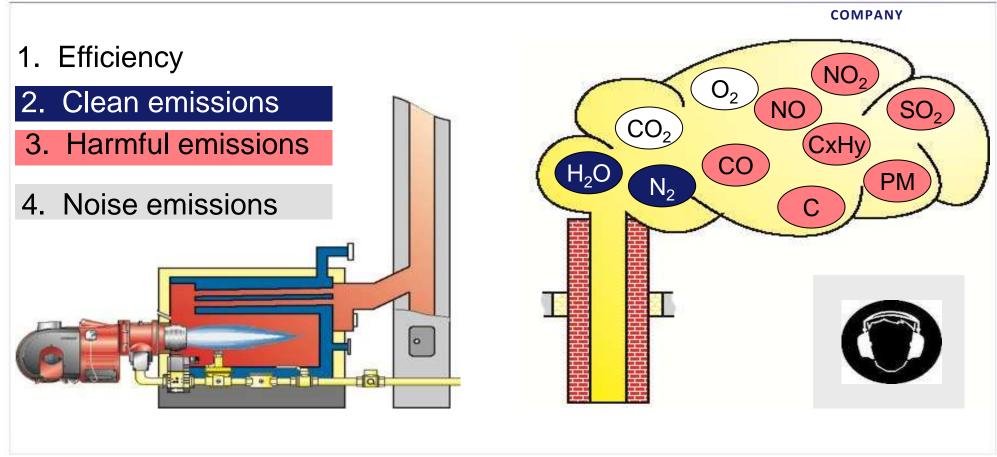
1. Huynh Bang can also offer customer training for their burners.





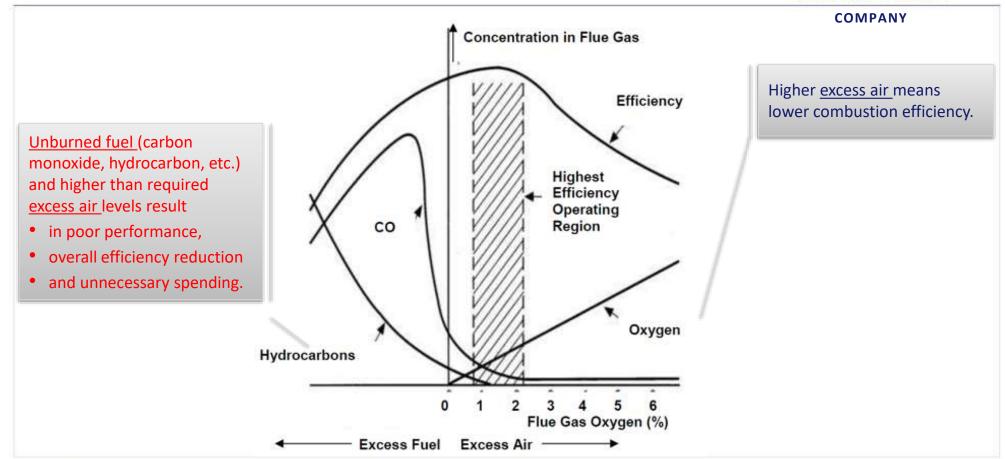
1. Overview Emissions







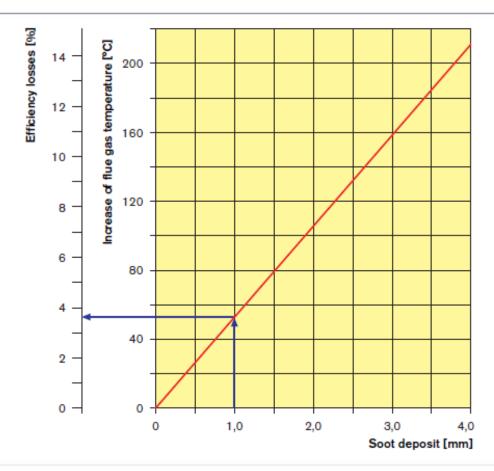
1. Industrial Heat: Importance of optimal air and fuel ratio for high efficiency and low emissions



1. Industrial Heat: Influence of Soot Deposit on Boiler Efficiency



COMPANY



2. ecom[®] Headquarters in Iserlohn, Germany







2. ecom Flue Gas Analyser Range







2. ecom: Variety of measured or calculated values afor any kind of fuel



Measured values:

- O₂ (0-21%)
- CO (0-4.000 ppm)
- Gas temperature (0 500 °C)
- Ambient temperature (0 99 °C)
- Pressure(± 100 mbar)
- Differential pressure(± 100 mbar)
- Internal air pressure sensor (300 1.100 mbar)
- Internal flow measurement

Options (electrochemical sensors):

- NO (0 5.000 ppm)
- NO₂ (0 1.000 ppm)
- SO₂ (0 5.000 ppm)
- CO extended (0 10.000 ppm)
- CO% (0 63.000 ppm)
- C_xH_y (0 4 vol% catalytic)
- H₂ (0-2.000 ppm)
- H_2S (0-1.000 ppm)
- NH₃ (0-1.000 ppm)
- HCl (0-100 ppm)

Options (infrared bench):

- CO% (0 63.000 ppm)
- CO₂ (0 20%)
- C_3H_8 (0 2.000 ppm)
- CH₄ (0 30.000 ppm)
- Differential temperature
- Soot measurement

Calculated values:

- CO₂
- CO_(undiluted)
- Losses
- Efficiency (0 120%)
- NO,,
- mg/m3
- mg/kWh
- Excess air
- Dew point
- Adjustable O₂ ref.

COMPANY

Fuel types:

- Propane
- Butane
- Natural gas (L)
- Natural gas (H)
- Biogas
- Biomass
- Heavy oil
- Light oil
- Pellets
- Wood
- Coal
- Gasoline



2. ecom: From small handheld instruments to robust case instruments





ecom-B small | handy | robust



ecom-EN3
quick | compact | accurate













ecomsafe identification of leakages at gas pipes



BW Clip O₂ / CO / H₂S Maintenance-free Single gas detector Android / iOS compatible



quasi-continous

2. ecom: Unique Selling Points ecom® Products









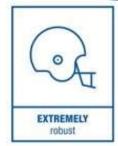




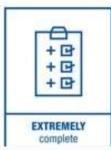
























2. ecom – flue gas analysis results – pressure test results



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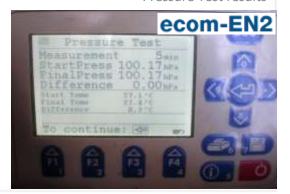
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Flue gas analyzer display in operation

Pressure Test results





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2. ecom flue gas analysers in the field











2. ecom proven use in the field.







2. ecom instruments critical for burner commissioning and troubleshooting







3. Bosch Industrial Boilers located in Gunzenhausen (Germany)







3. Bosch Industrial Boilers







Approx. **1400** customer-specific industrial boiler systems per year



Approx. **700** associates at Bosch Industrial in Germany and Austria



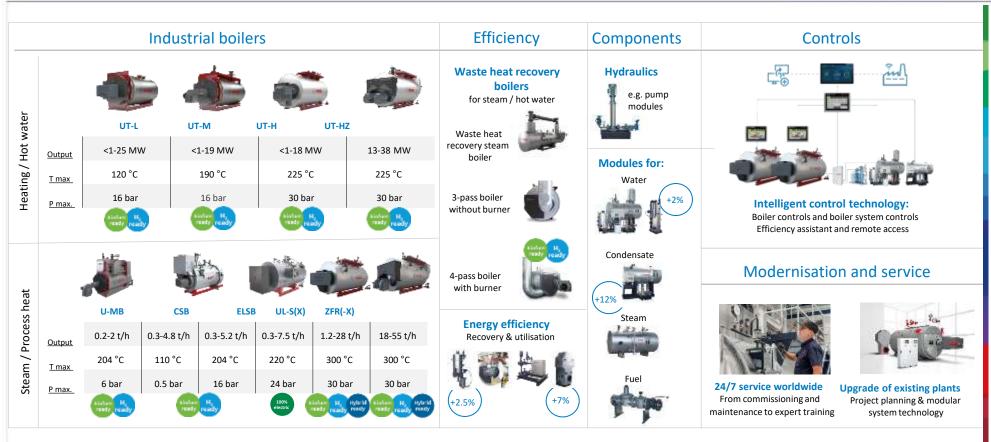
Delivery in more than

140 countries worldwide



3. Bosch Industrial Boilers Portfolio

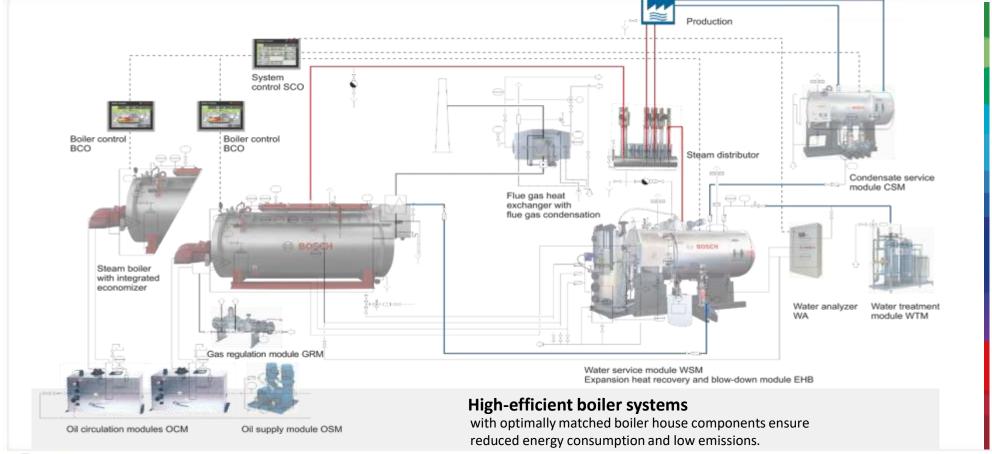






3. Bosch high-efficient Boiler Systems

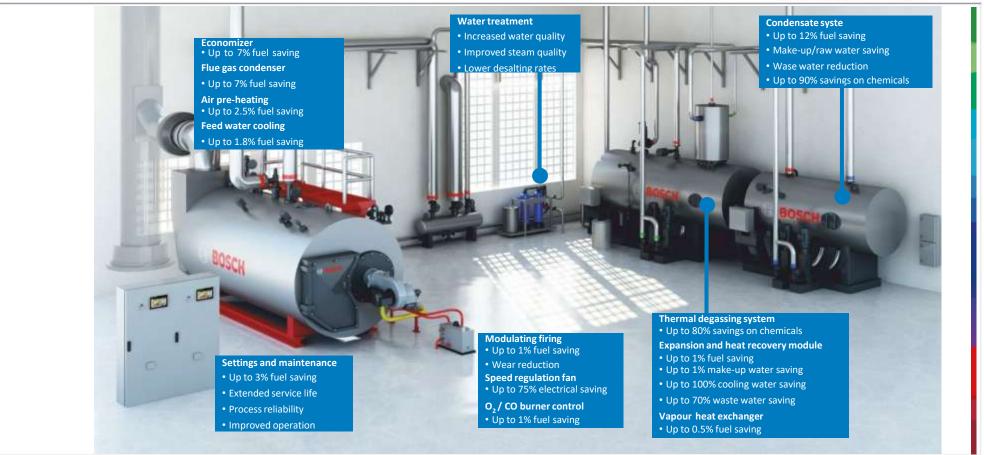






3. Bosch boiler house components, efficieency components and controls







3. Bosch universial steam boiler type UL-S



COMPANY



Universal steam boiler UL-S / UL-SX

The UL-S is a highly efficient steam boiler with a three-pass design for 1,250 to 28,000 kg/h of steam at up to 30 bar.

With impressively low emissions and its ability to be converted for biofuels or hydrogen, the UL-S is designed to be future-proof.



3. Bosch Steam Boiler UL-S: Benefits at a glance







- Very high efficiency in all output ratings for low running costs and emissions
- Complete system with customer-specific equipment
- Future-proof technology with options for hydrogen, biogas and bio-oil
- Extremely well proven design "Made in Germany", highly durable and easy to maintain
- Consistent steam quality for reliable supply
- Custom designs available for heat recovery boilers, hybrid or superheated steam
- Smart boiler control and seamless system integration with digital assistants

Technical data of the type UL-S / UL-SX		
Heat transfer medium	High-pressure saturated steam / superheated steam	
Design	3-pass single-flame tube/smoke tube technology	
Output	1,250 – 28,000 / 2,600 – 28,000 kg/h	
Safety pressure	Up to 30 bar	
Max. temperature	235 / 300 °C	
Fuel	Oil, gas, multi-fuel firing, biogas, bio-oil, hydrogen, special fuels	

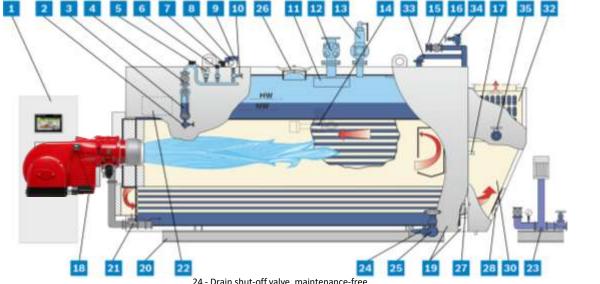


3. Bosch Steam Boiler equipment for UL-S



Legend:

- 1 Control cabinet with boiler control BCO (compact control CSC for outputs up to 4,000 kg/h as an alternative)
- 2 Blow-off tap
- 3 Reflective water level indicator
- 4 Manostat tube shut-off valve, maintenance-free
- 5 Pressure limiter
- 6 Pressure transducer (4-20 mA)
- 7 Low-level limiter electrode
- 8 Pressure gauge
- 9 Level transducer (4-20 mA)
- 10 Pressure gauge shut-off valve with testing
- 11 Steam dryer
- 12 Steam removal valve
- 13 Full-lift safety valve
- 14 Fully automatic conductivity measurement and desalting
- 15 Feed water non-return valve
- 16 Feed water shut-off valve, maintenance-free
- 17 Sight hole
- 18 Burner
- 19 Insulation with protective shell
- 20 Base frame
- 21 Gas regulation module (gas valve train)
- 22 Terminal box
- 23 Pump module



- 24 Drain shut-off valve, maintenance-free
- 25 Quick shut-off blow-down valve
- 26 Inspection opening, steam side
- 27 Inspection opening, water side
- 28 Inspection opening, flue gas side
- 30 Flue gas collection chamber
- 32 Flue gas heat exchanger ECO
- 33 Connection piping ECO/boiler
- 34 Vent shut-off valve ECO
- 35 Drain shut-off valve ECO (draining)



3. Bosch Quality Manufacturing – Four Points





Precision in ideal position

Boilers up to 120 t can be rotated safely and manufactured in ideal position







Certified experts
Our nearly 200 boiler welders
have more than 1,000
welding exam qualifications

Quality control by X-ray in every production line (3 plants)



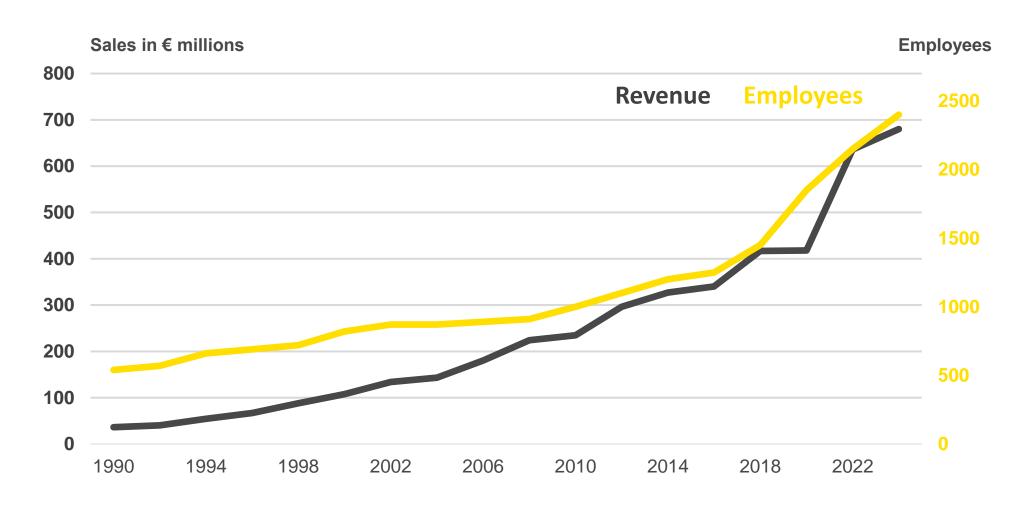
HUYNH BANG

1. VEGA Headquarters in Schiltach, Germany





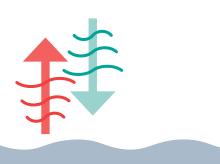
Focussed on long-term development



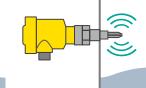


Product portfolio

We produce measurement



Level measurement



Level detection

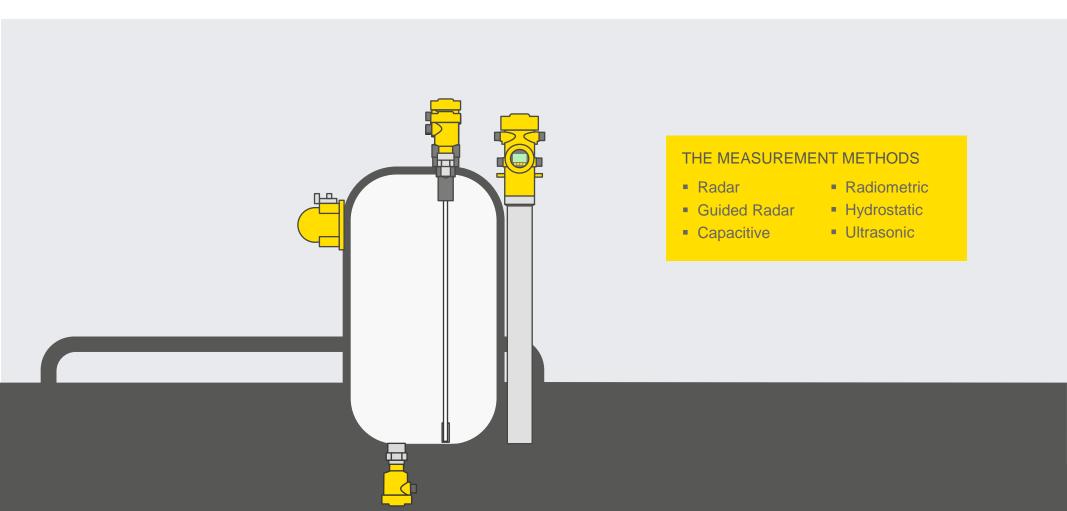


Pressure measurement



Control units & communication

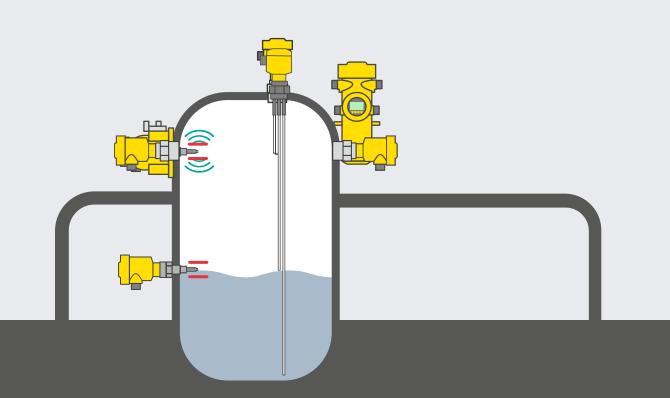
Continuous level measurement



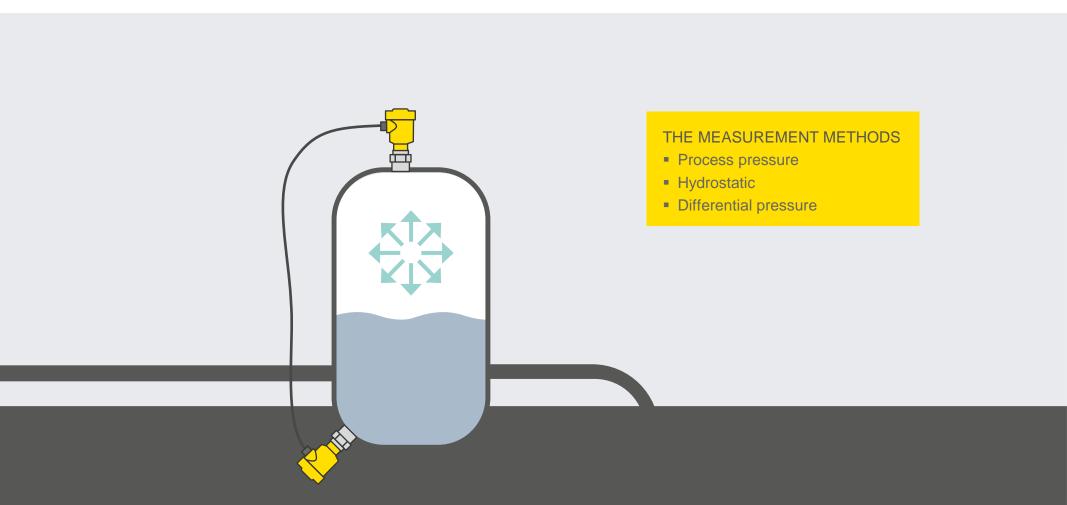
Safe level detection

THE MEASUREMENT METHODS

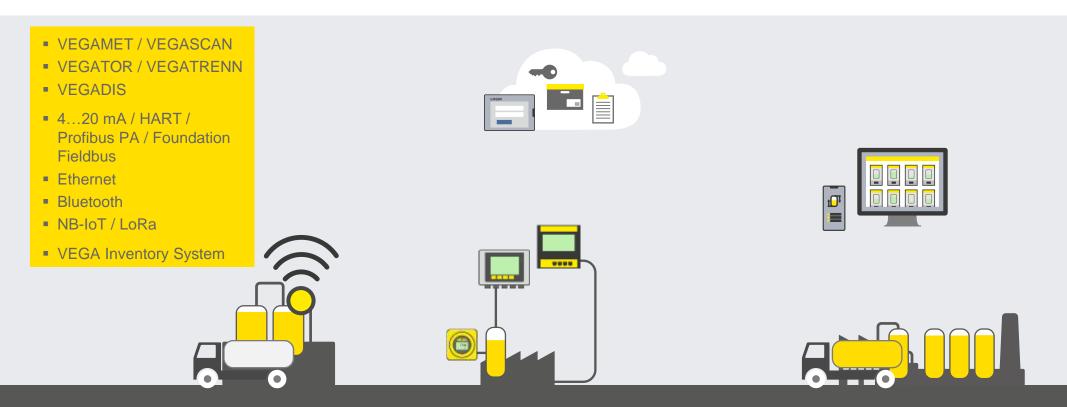
- VibrationConductive
- CapacitiveRadar
- Radiometric



Universal pressure measurement



Smart communication





Industrial sectors

Pharmaceutical

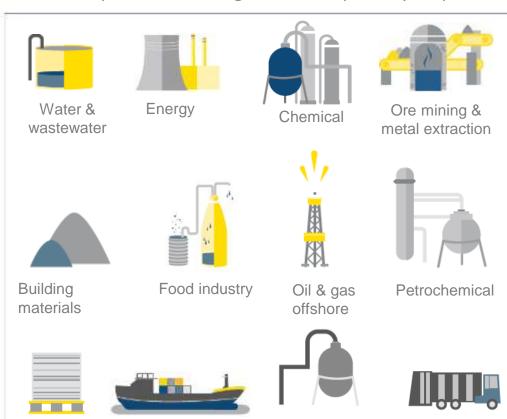
industry

Environment &

recycling



1. VEGA can provide measuring instruments perfectly adapted to the conditions of any application.



Shipbuilding





Paper

1. VEGA in Food & Beverage Industry - Hygienically flawless



COMPANY



- Expertly designed
- Perfect cleanability
- Standardised hygienic adapters

Reliable processes – consistent product quality

EC 1935/2004, FDA, EHEDG, 3A compliant





GB Standards









HUYNH BANG

1. VEGA for the strictest requirements

Wear and maintenance free

Despite extreme influence from cold, heat and wind

Robust housing and sensor technology

 Resistant to seawater, abrasive bulk solids, etc.

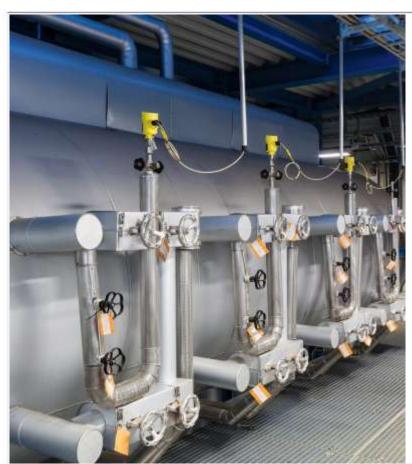




1. VEGA - Absolutely reliable under changing conditions.



COMPANY



Diverse media properties

- Corrosive or creep-prone, high or low viscosity
- Adhesive or volatile, cryogenic or boiling

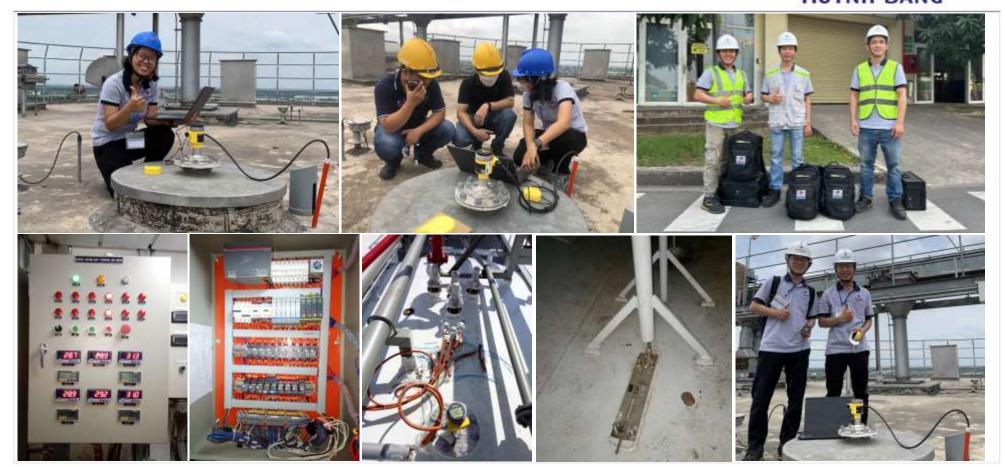
Reliable measurement data

 The focus is on the safety of the staff as well as the plant, even in 24-hour operation



HUYNH BANG

1. VEGA references in Vietnam





HUYNH BANG

1. VEGA references in Vietnam





HUYNH BANG





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2. JUMO Headquarters in Fulda, Germany



HUYNH BANG

2. JUMO Sensor Solutions - Precision in Measurement







Liquid analysis



Pressure



Level



Flow



Humidity

















2. JUMO Automation Solutions





Control



Recording



Automation



Monitoring









HUYNH BANG













2. JUMO references



COMPANY





























HUYNH BANG



HUYNH BANG











3. Optris: Non-contact infrared Temperature Measurement









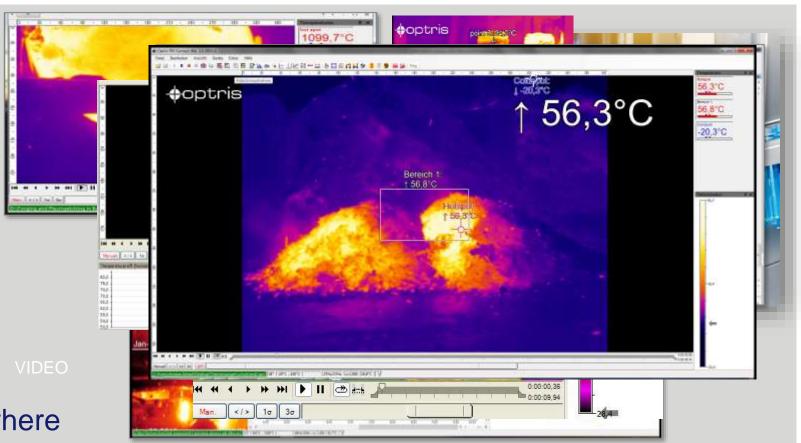




Fields of application WHEN TEMPERATURE MATTERS



- Metal
- Plastic
- Glass
- Electronics
- Food
- Pharmacy
- Safety
- ...
- Almost everywhere



Fields of application

PROCESS OPTIMIZATION VIA TEMPERATURE MONITORING





Metal industry

Our non-contact measuring sensors are now indispensable in the production and processing of metal.



Glass industry

Our glass thermometers and IR cameras are optimally suited to noncontact temperature measurement of glass surfaces and use innovative double lasers to indicate the exact measurement spot.



In order to guarantee flawless product quality, Optris provides efficient solutions for process temperature monitoring and optimization using infrared thermometers and thermal imaging cameras.



Early fire detection with infrared cameras and infrared thermometers is an important protective measure in the industry designed to avert irreparable damage in industrial plants and buildings. Hence surfaces can be observed 24/7 and protective measures can automatically be introduced via process technology.



Fields of application

PROCESS OPTIMIZATION VIA TEMPERATURE MONITORING





Semiconductor industry

Continuous monitoring and process optimization is vital in the solar and semiconductor industry.

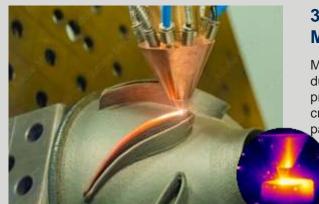


Plastics industry

Optris has the perfect solutions for non-contact measurement of temperatures in the injection molding process, in PET bottle manufacturing or for thermoforming films.



Our infrared thermometers and thermal imaging cameras are used by both the manufacturers of medical devices and medical professionals themselves.



3D Printing & Additive Manufacturing

Monitoring and temperature regulation during each process phase of 3D printing and additive manufacturing is crucial for production of high-quality parts. If the temperature is controlled

throughout, welding defects can be prevented and failures avoided. This allows corrections to be made to welding parameters during the process.

July 2025

Product portfolio

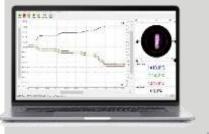


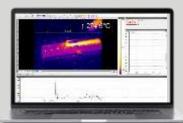






Software/ Apps







July 2025

3. Optris: Non-contact infrared Temperature Measurement



















3. Optris: Non-contact infrared Temperature Measurement

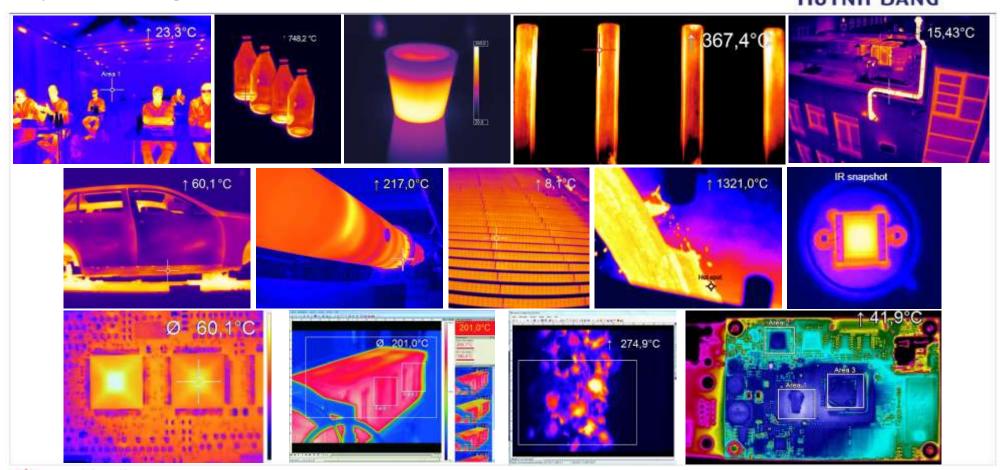






HUYNH BANG

3. Optris thermal images





HUYNH BANG

4. KEM Headquarters in Karlsfeld and Factory in Bad Kötzting, Germany













4. KEM specializes in TRICOR mass flow meters and mechanical meters incl. transmitters and amplifiers HUYNH BANG



HUYNH BANG

4. KEM references













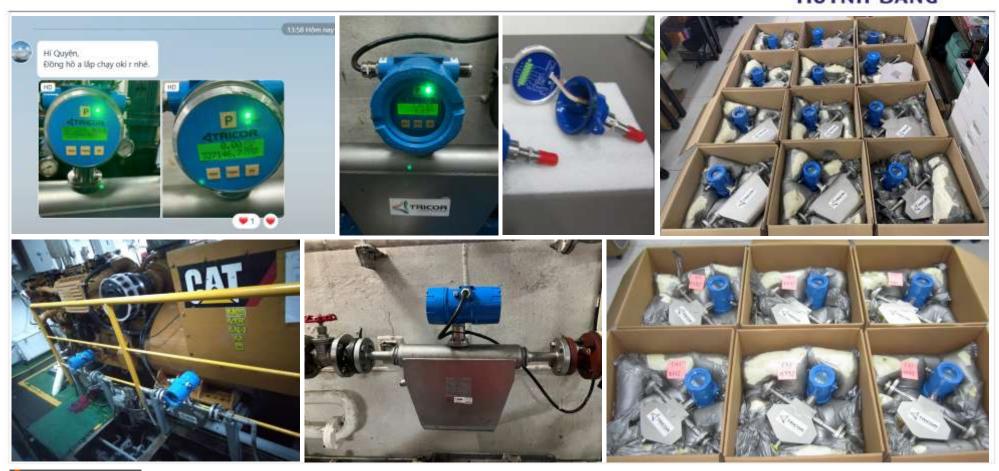






HUYNH BANG

4. KEM references





4. KEM references





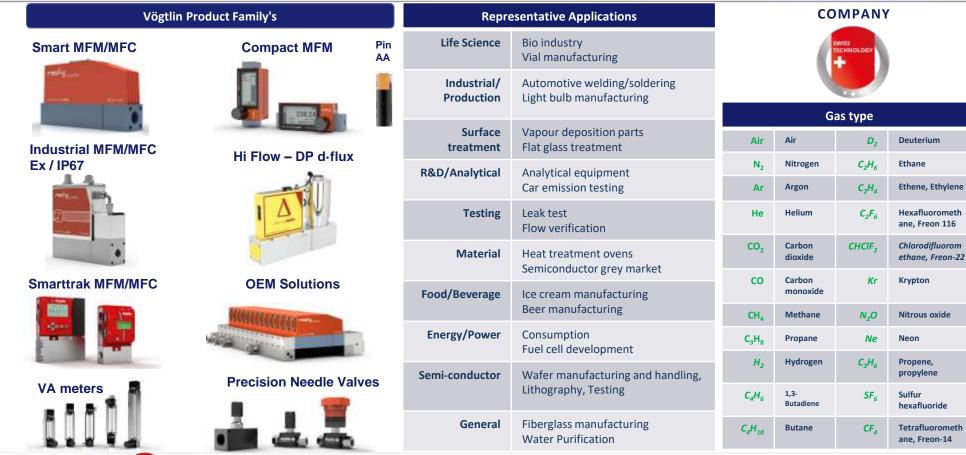






5. Vögtlin Instruments GmbH – Gas flow technology – Headquarter in Muttenz - Switzerland







instruments

5. Vögtlin Instruments GmbH – connecting cable, accessories & phone app.





The new Vögtlin Connect App		
Bluetooth readable / adjustable variables	Read	Write
Create & edit profiles (set of settings)	YES	YES
Flow range & dynamic range	YES	YES
Filter settings	YES	YES
Alarms and warnings	YES	YES
Analog in/output configuration	YES	YES
Function of push button*	YES	YES
Read current values	YES	
Show Graphs	YES	
Totalizer (read, select, reset)	YES	YES
Node / slave address setting	YES	YES
I/O for external valve on / off	YES	YES
Restart device		YES
Password protection of unit	YES	YES
Factory reset		YES
PID and valve parameters	YES	YES



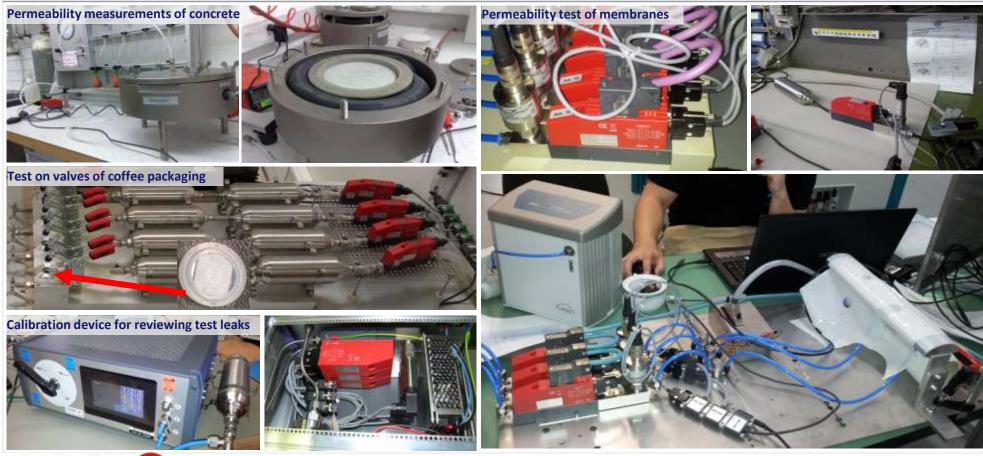






5. Vögtlin Instruments GmbH - Applications



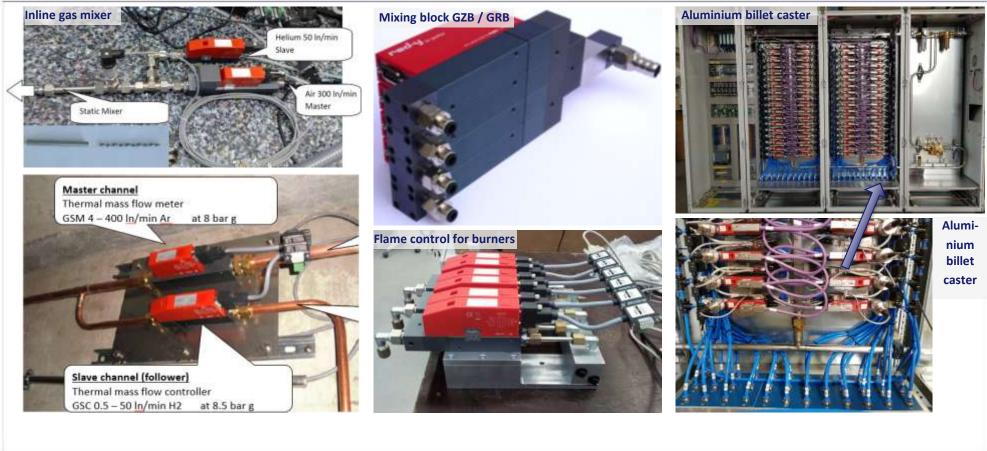






5. Vögtlin Instruments GmbH - Applications









6. Meister Variable Area Flow Meters located in Wiesen, Germany.





- > Founded in Germany in 1984
- > 100% family owned
- > >1 million installations globally
- **▶** 40 global distributors

Online Virtual Reality Tour here



- > In-house technology center
- Fully automatic multi-viscosity oil test benches
- Customized calibrations
- ➤ Oil- / water- / gas test capabilities







- ➤ No power supply needed
- ➤ For all installation angles
- > 0.005 I/min 333 I/min flow range
- > Suitable until 160 °C and 350 bar
- > Various output signal options

Youtube video <u>here</u>









- ➤ Temperature- and pressure signal processing from external analog sensors
- > Fast and simple wiring
- > 2-way and EMC-proof communication
- > Remote sensor monitoring

Youtube video here









- > 3D printed flowmeters and other components
- > Maximum customization opportunities
- Plastic type material
- > Quick prototyping

Youtube video here













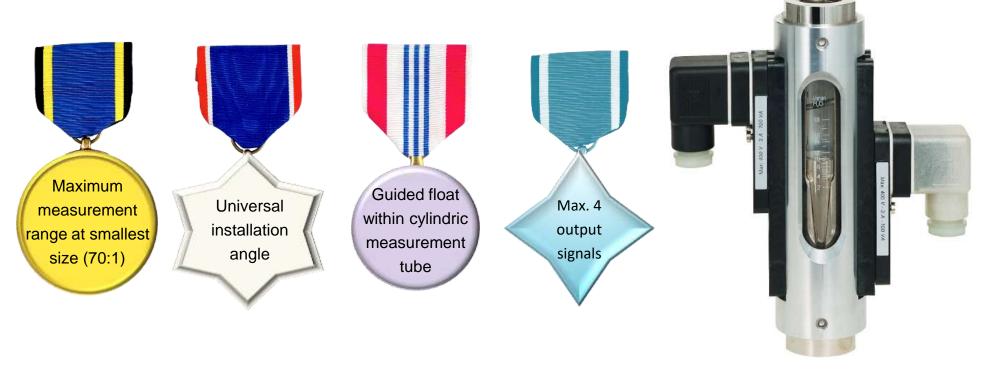
- **➤** Weight reduction
- ➤ Maximum design freedom

Youtube video <u>here</u>





advantages of using Meister flowmeters





INDUSTRIALFLOW

Your Partner for Industrial Flow Measurement



6. Meister Variable Area Flow Meters



COMPANY











6. Meister Variable Area Flow Meters

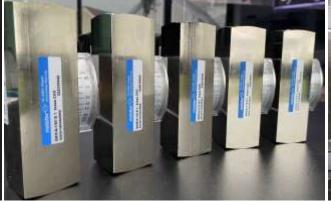


COMPANY















6. Meister – AMFE (Automatic Minature Fire Extinguisher)



DEVICE-INTEGRATED FIRE PROTECTION FOR: CONTROL CABINETS | FUSE BOXES | SERVER CABINETS

In control cabinets and systems, a fire can easily cause major damage. The AMFE extinguishes reliably and precise

Further advantages:

- Can be connected with fire alarm systems
- Combinable with smoke alarms for smoldering fire
- Remote release possible
- Suitable for all industries

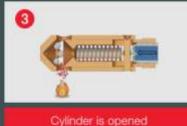


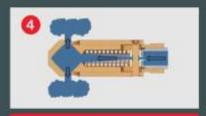
THE AMFE FUNCTIONING PRINCIPLE





Glass ampoule bursts





Extinguishing medium is released





6. Meister – AMFE (Automatic Minature Fire Extinguisher)



AMFE: PRODUCT VARIATIONS

AMFE:

- Basic version
- Stand-alone product
- Automatically triggered by temperature
- Available for various standard operating temperatures

S-AMFE:

- Conductive thermo-bulb
- 2-tab terminals mounted on activation head
- Normally-closed control circuit will be interrupted
- Signaling function to user that AMFE has discharged

R-AMFE:

- Remote control to trigger activation
- Interconnected Multi-alert® system
- Integration of external sensors (e.g., smoke detectors)







COMPANY



AMFE & extinguishing agent FK-5-1-12



S-AMFE & extinguishing agent FK-5-1-12 (with electric signal connections)



R-AMFE & extinguishing agent FK-5-1-12 (with electric signal connections)





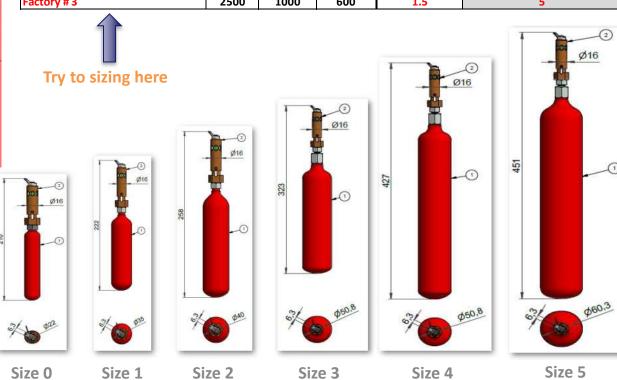


6. Meister – AMFE (Automatic Minature Fire Extinguisher)

HUYNH BANG

AMFE: PRODUCT SIZES					
Cylinder Size	Cylinder Dimensions [mm]	Volumes [Liter]	Cylinder content [ml]	Protected Volume acc. to Fire Protection Class A (NFPA2001) [m³]	
0	22 x 128	0,024	22	0,06	
1	35 x 154	0,080	72	0,19	
2	40 x 186	0,133	120	0,32	
3	51 x 251	0,267	241	0,64	
4	51 x 356	0,400	360	0,96	
5	60 x 380	0.670	603	1.61	

Electrical Cabinet Description	Dimensions (HxWxD) in mm			Volume in m ³	Recommended AMFE Size
Factory # 1	800	600	250	0.12	1
Factory # 2	1500	800	300	0.36	3
Factory # 3	2500	1000	600	1.5	5







6. Meister – **AMFE** (Automatic **M**inature **F**ire **E**xtinguisher)



COMPANY

AMFE: INSTALLATION EXAMPLES





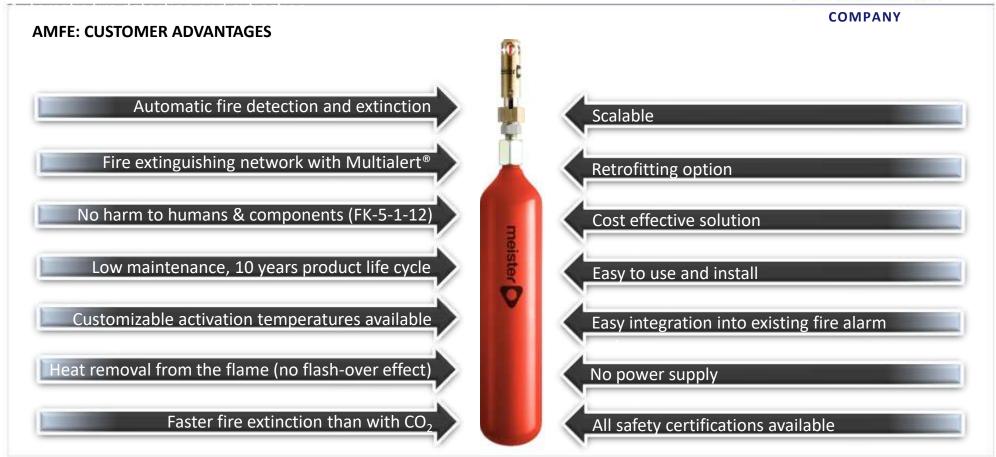








6. Meister – AMFE (Automatic Minature Fire Extinguisher)







HUYNH BANG

7. SCHMIDT® Flow Sensors – Simply a question of better measurement





7. SCHMIDT® Flow Sensors – Simply a question of better measurement







- Consumption Measurement
- Leakage detection
- Compressor control
- Energy Contracting

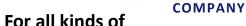












industrial processes

- Industrial burners and kilns
- Drying processes
- Supply and exhaust air control
- Exhaust of dusty air and gases
- Volume flow control
- Mass flow control



7. SCHMIDT® Flow Sensors – Simply a question of better measurement









For Cleanrooms in

- Pharmaceutical Industry
- Food Industry
- Semiconductor Industry

For the Application in

- Laminar-flow monitoring
- Room-overflow monitoring
- Filter monitoring









7. SCHMIDT Technology – Mounting variations







7. SCHMIDT Technology references



















8. Vaisala- Headquarters in Vantaa, Finland























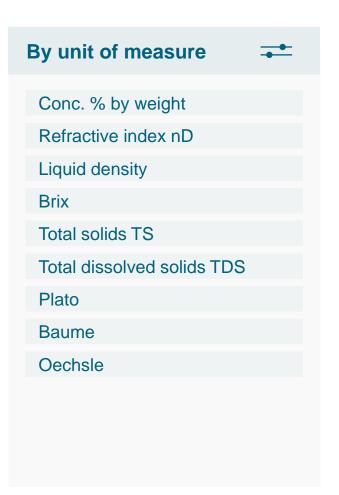




Vaisala Process Refractometer solutions







Vaisala Polaris process refractometer



Refined 5th generation reliability



Vaisala quality



Robust design



Engineer to order service



Drift-free measurement



Global and local customer service and support

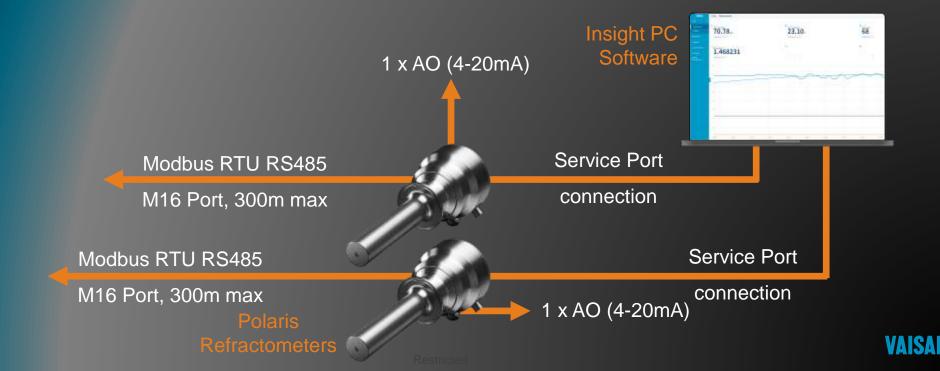


Widest offering and industry expertise

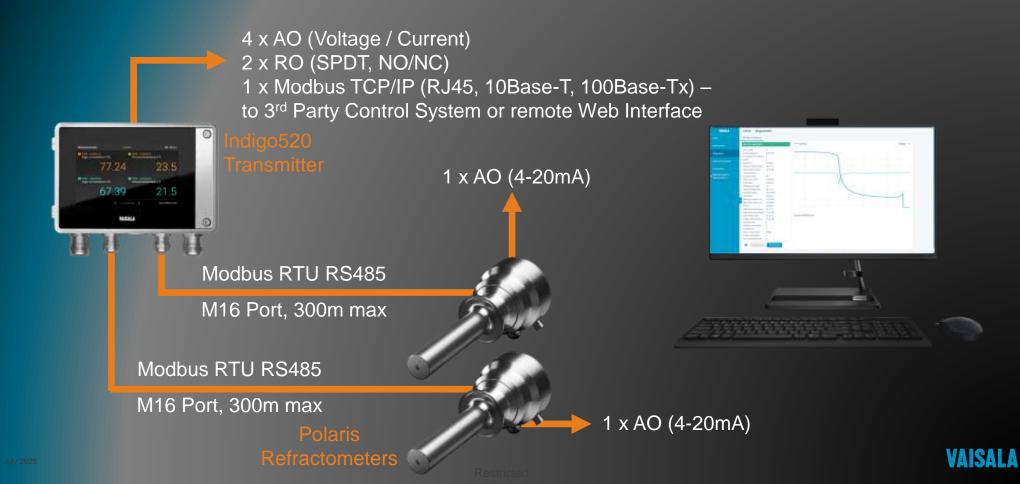




Vaisala Polaris process refractometer (Schematic)

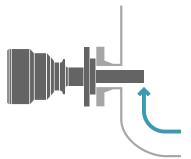


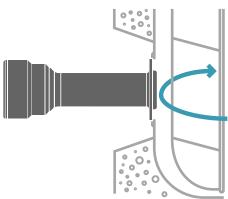
Vaisala Polaris process refractometer (Schematic)



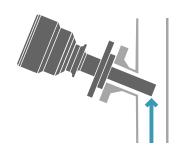
Installation Flexibility

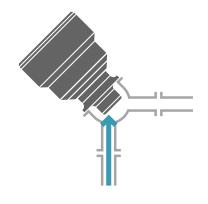




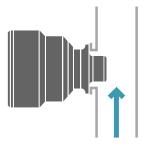


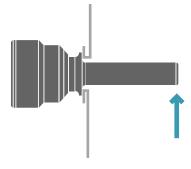
Pipeline





Varivent





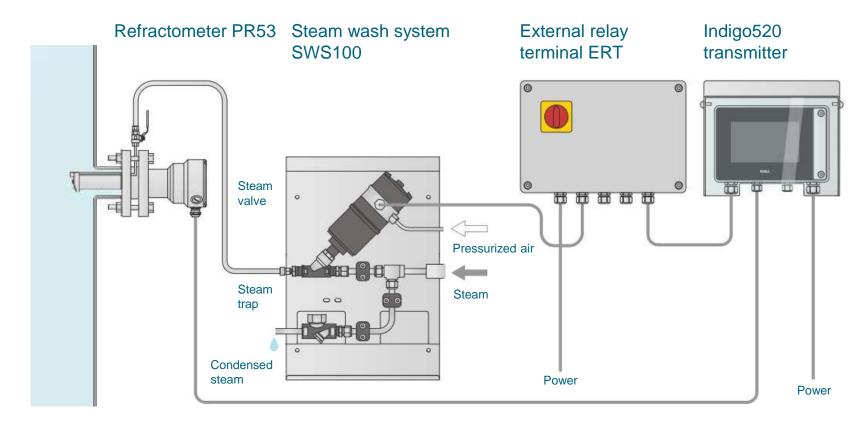


129 July 2025

Restricted

Steam Wash System

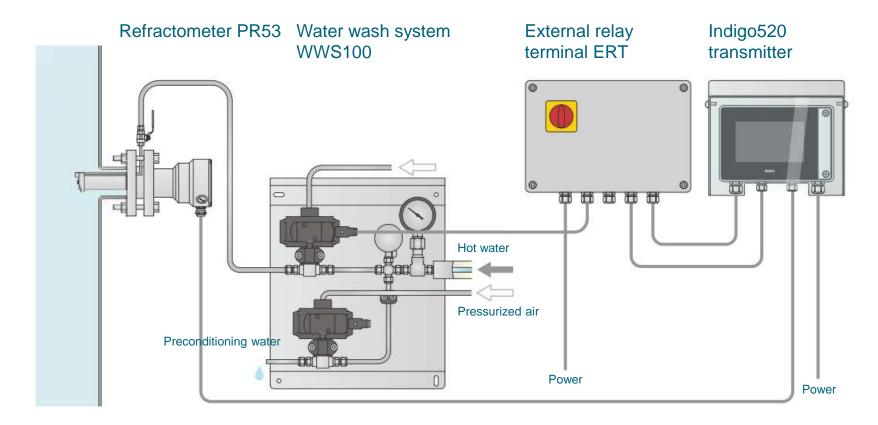








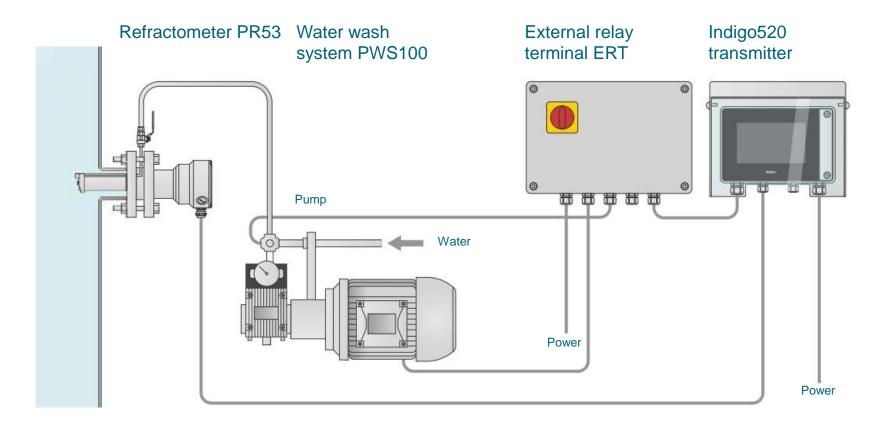
Water Wash System





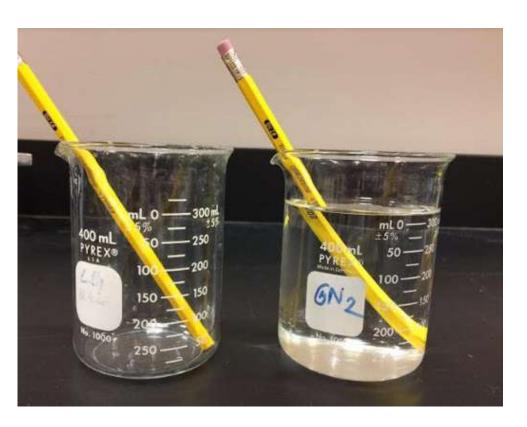


Pressurized Wash System





Refractive Index



- Physical Property of a substance
- Measurable
- No chemical change
- "Power of Bending the light"
- Concentration of the solution affect
 Power of Bending or Refractive Index
- Higher Concentration, more bend

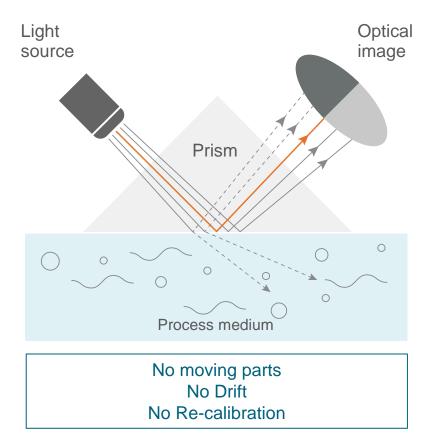


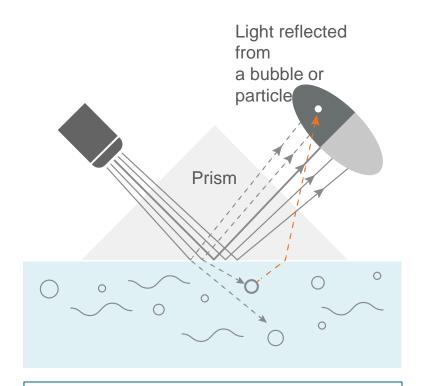
Video

Refractometer Animation



Critical angle measurement



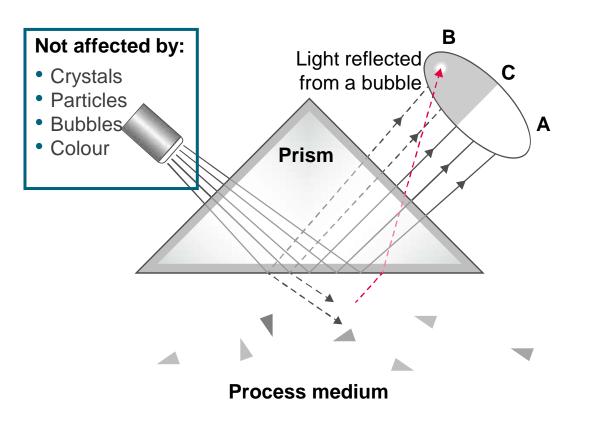


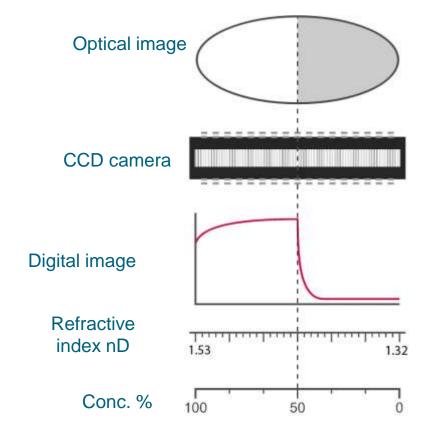
Not influenced by
Particles, Bubbles or Color,
Flow regime and Internal pipe coating



True Measurement of Dissolved Components

Digitization reduce Measurement Uncertainty









Drift-free measurement with outstanding stability

Built to last and measure in most demanding process conditions

- CORE-optics
- Electronics isolated from process temperature





Robust design

Drift-free measurement with outstanding stability

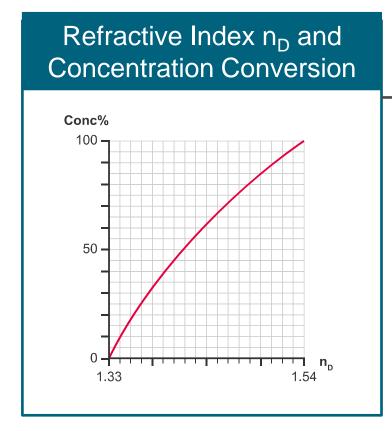
Built to last and measure in most demanding process conditions

Not Affected by

- Vibration
- Temperature Shock
- Pressure Peak



Exact Calibration



Matches exactly

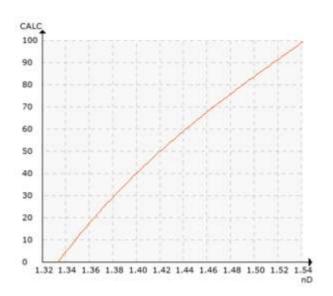
Standard Concentration Tables

Conc%	n _D		
0	1.3300		
10	1.3478		
20	1.3639		
100	1.5400		

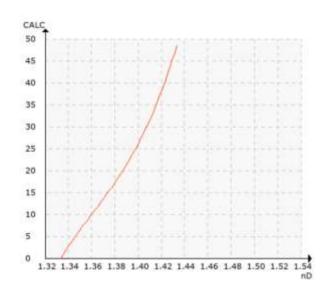


From Refractive Index to Concentration Value

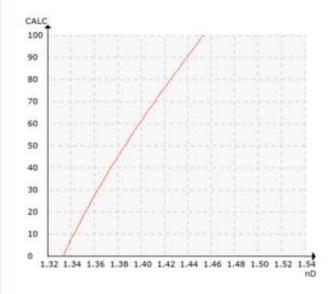
Sugar (°Brix)



Caustic Soda (% bw)

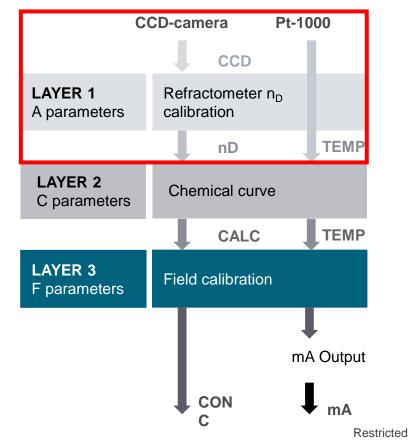


Phosphoric Acid (% bw)



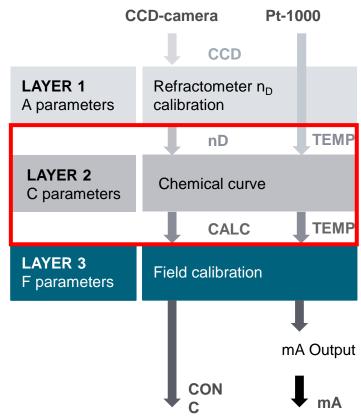


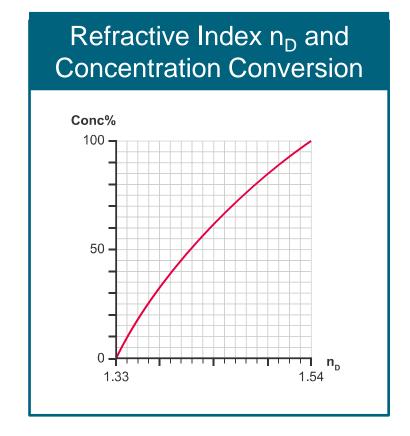
Unique 3-Layer Calibration (layer 1)





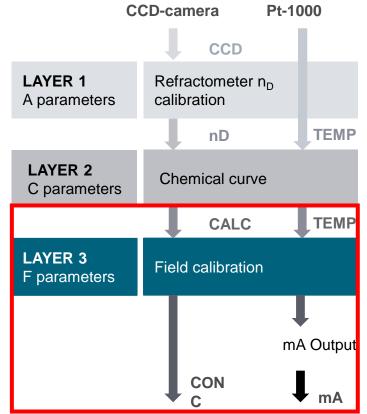
Unique 3-Layer Calibration (layer 2)

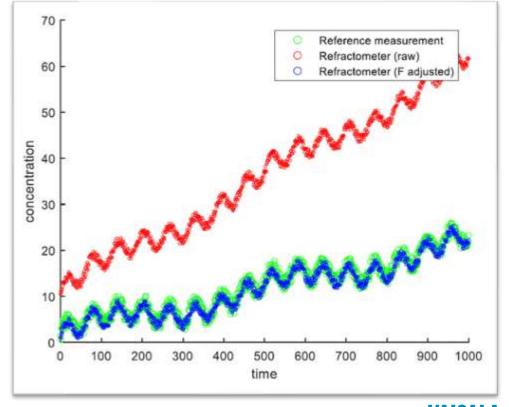




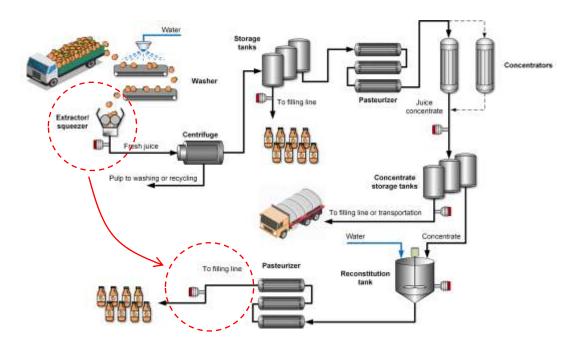


Unique 3-Layer Calibration (layer 3)



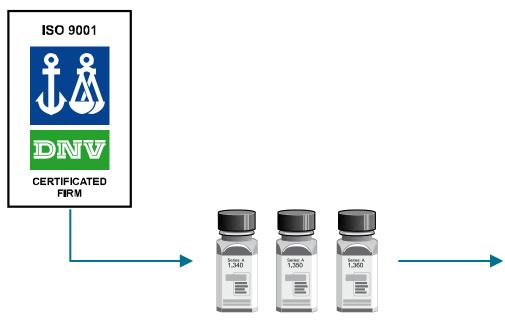


Vaisala Process Refractometer Unique 3-Layer Calibration



- Easy Interchangeability
- No mechanical adjustments when recipes and/or application change
- Not required to send sensors back to factory for recalibration
- Protect your investment as your production plan changes

Vaisala Process Refractometer Reproducable Sensor Verification



n_D calibration is traceable to international standards





Application check list for hygienic processes

Measurement principle	Refractive index sensitive to dissolved material only
Range and accuracy	Full range, 0-100 Brix, accuracy +/- 0.1 Brix, repeatability +/- 0.05%
Absolute maximum process temperature rating	Compact probe: 130°C (266°F), Long probe: 150°C (300°F)
Process pressure	Max. 40 bar (580 psi) at +20 °C, operating pressure to the clamp rating pressure
Process connection	3-A Sanitary or Varinline® coupling, tank bottom flange, selection of flow cells (optional)
Wetted parts materials	EN 1.4404, 1.4435 (AISI 316L), Sapphire, 1.4435 (flow cell)
Pipe diameter and flow	Smaller diameter = better velocity, recommended flow velocity min. 1.5 m/s (5 ft/s)
Ambient temperature	-40 +60 °C (-40 +140 °F), optional cooling cover for higher temperatures
User interface	Optional Indigo520 transmitter (for up to 2 refractometers), Web UI
Cabling	Up to 300 m



Vaisala Process Refractometer The Best Way to Measure Concentration

- End-Product Yield & Quality Assurance
- Production Speed & Throughput
- Production Uptime & Availability
- Reduce waste and rework
- User friendly to operate and maintain
- Minimal utilities consumption
- Safety, Health and Environment

- Accurate
- No calibration drift
- Maintenance free





8. Vaisala references from Pulp & Paper Industry and Vaisala Service Training







8. Vaisala sensor verification done by Huynh Bang.







9. CANTY Process Technology – "Eyes in the Process"



COMPANY



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9. CANTY High Temperature Camera Systems



COMPANY

UltraTemp Camera

Process Temp: **1370°C**NO LENS COOLING REQUIRED
NO RETRACTION SYSTEM REQUIRED
12", 24" or 36" Insertion



ExtremeTemp Camera

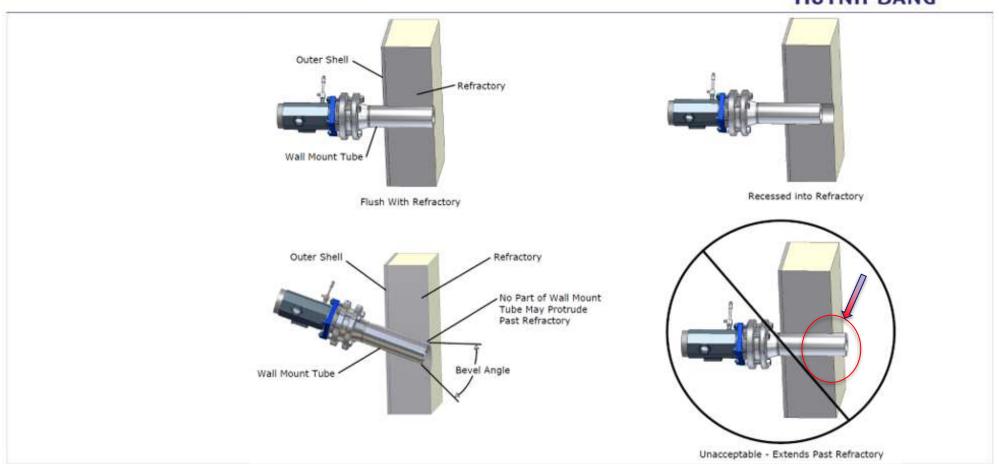
Process Temp: **1650°C**LIMITED LENS COOLING REQUIRED
NO RETRACTION SYSTEM REQUIRED
12", 24" or 36" Insertion





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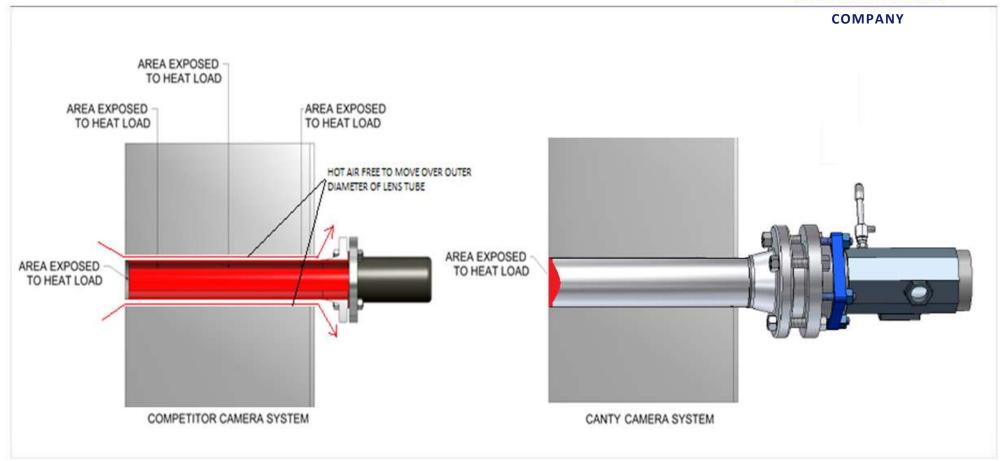
9. CANTY High Temperature Camera Systems





HUYNH BANG

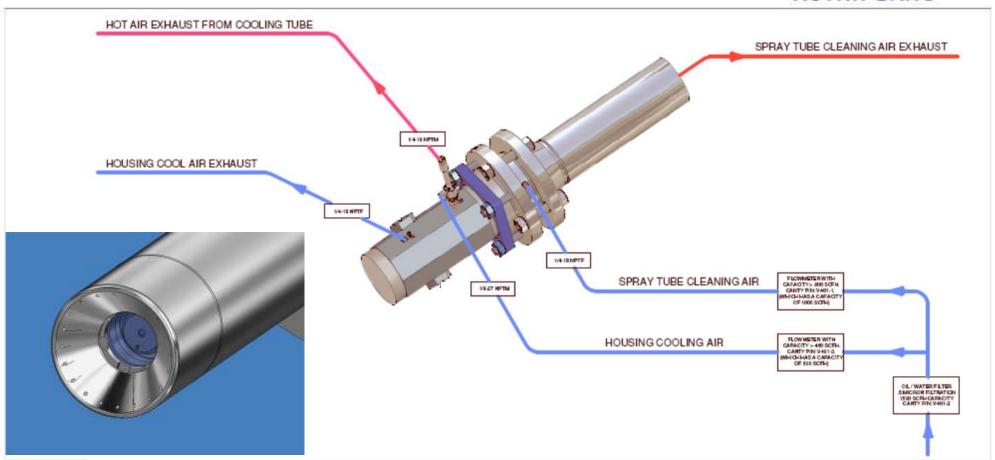
9. CANTY High Temperature Camera Systems





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9. CANTY High Temperature Camera Cleaning / Cooling Air Layout





9. CANTY High Temperature Camera Systems



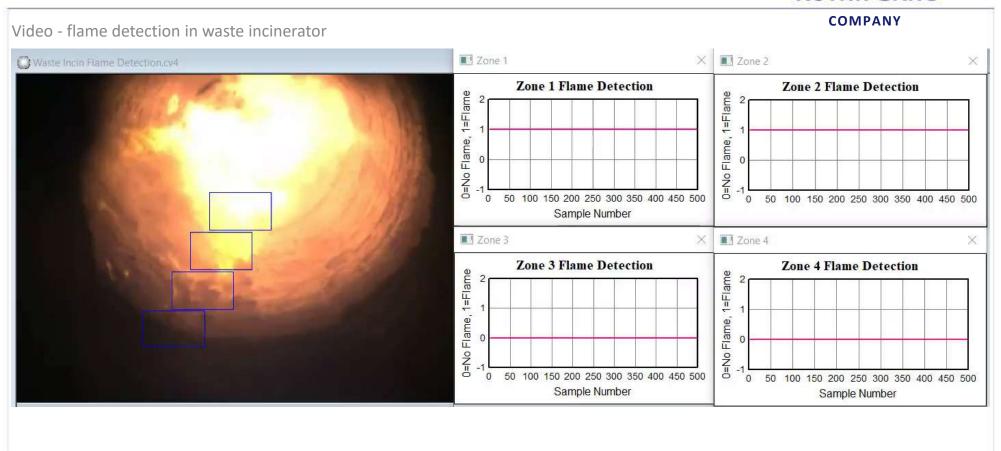






HUYNH BANG

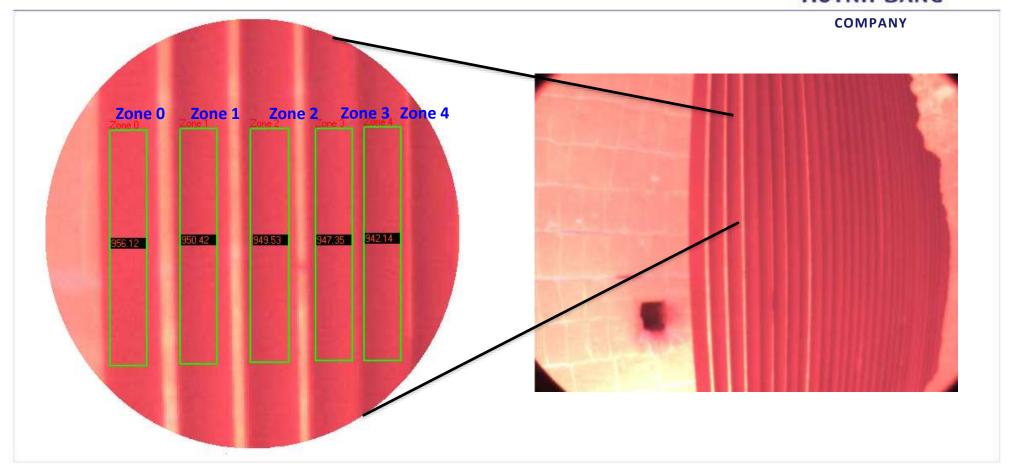
9. CANTY High Temperature Camera Flame Detection





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9. CANTY High Temperature Camera for Cracking Furnace – Tube Metal Temperature





9. CANTY Equipment for Dry Particle Size & Shape











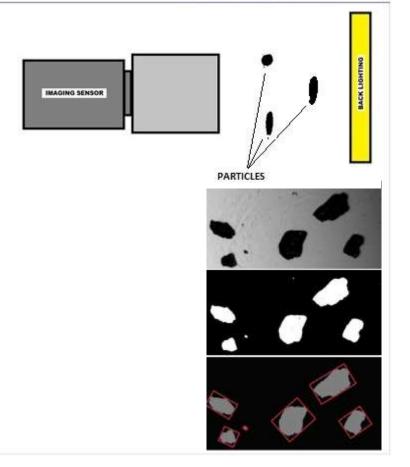
9. CANTY Vision Based Particle Size Analysis – Fundamental Principle



JM Canty's vision based technique works on the basic principle of presenting the product between micro / macroscopic optics and a high intensity light source (back lighting)

The captured images are then sent to CantyVision Software for analysis, where the particulate is measured under a number of **size and shape** parameters.... Major axis, minor axis, circularity, aspect ratio....

Systems available for Liquids Slurries and Dry Solids





9. CANTY Vision Based Particle Size Analysis – Offline / Lab System



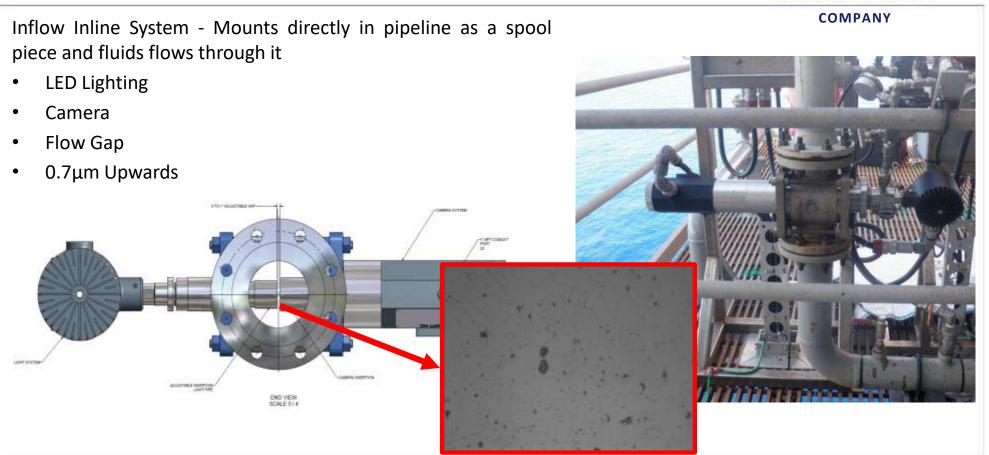








9. CANTY Vision Based Particle Size Analysis for Liquid Slurry Particle Size and Shape - Inline System





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9. CANTY Solid Sizer LAB

Video – Solid sizer in LAB







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9. CANTY Solid Sizer LAB





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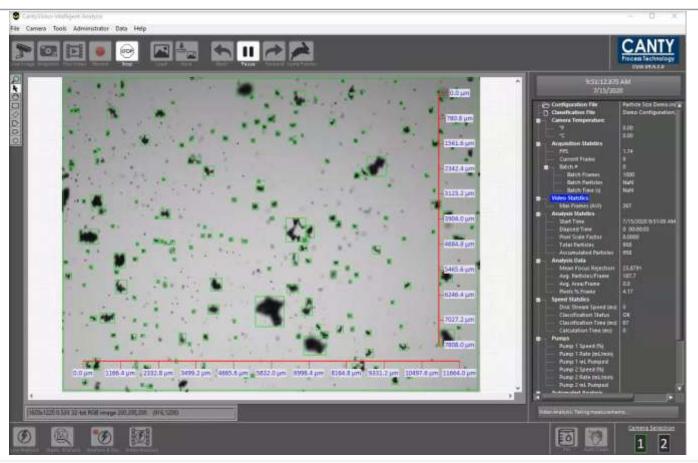
9. CANTY Particle Sizing Systems





9. CANTY Particle Sizing Systems





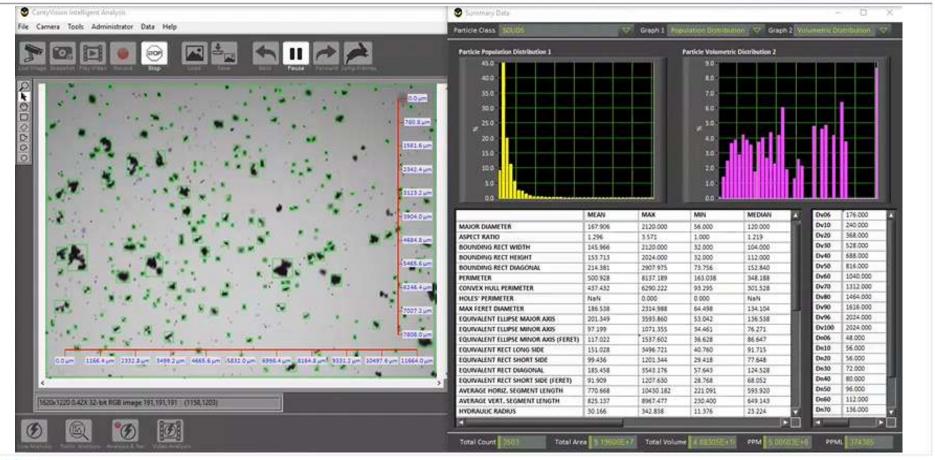
COMPANY

Video –
Particle Sizing Systems
on CANTY Vision software



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9. CANTY Particle Sizing Systems





III. Contribute to the Success of our Customers



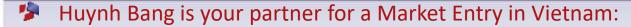
Typical Customers from wide variety of Industries. HBC has more than one way to approach Customers. HUYNH BANG



IV. Conclusion



Huynh Bang is a reliable and competent Partner.



- **COMPANY**
- Product knowledge in the areas of Industrial Heat, Measurement and Automation
- Market knowledge for industrial Equipment for more than 21 years
- Huynh Bang is a reliable and competent Partner:
 - Engineering and Management knowledge from Germany
 - Commitment to MRO
- Huynh Bang can offer the whole Package:
 - Technical consultation on design, sizing, selection and installation
 - On-site delivery, logistics and custom clearance procedures
 - Customer specific installation and commissioning
 - On-site troubleshooting and service
 - Spare parts consulting

Thank you for your attention.

Any questions? Please feel free to contact us.



INDUSTRIAL HEAT

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€COM[°]



COMPANY

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