

Huynh Bang Company Corporate Presentation

Ho Chi Minh City, Vietnam
February 2026

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

I. Company Profile

1. Vision, Mission & Core Values.



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Our Vision:

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.

I. Company Profile

2. Facts & Figures



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Founded in:

2003

Sphere of activity:

Supplier and Service Agent of Industrial Equipment **Made in Europe.**

Legal and administrative headquarters:

Huynh Bang Engineering GmbH

Walleitnerstraße 2
82031 Grünwald
München
Germany



Huynh Bang Company, Ltd.

36 Street no. 2, Quarter 22,
Binh Trung Ward,
Ho Chi Minh City,
Viet Nam

Employees:

2

18

Office space:

25 m²

174 m²

I. Company Profile

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		Level Measurement Point Level Detection and Pressure		Controller, Software Inventory System – Hosting Service
Flue Gas Analysis, Pressure & Gas/Leakage Detection		Temperature, Liquid Analysis, Pressure, Flow and Humidity		Controllers, Recorders, Automation Systems and Monitoring
Steam Boilers, Hot Water Boilers		Non-contact infrared Temperature		
Burner Supply Pumps, Feed Pumps & Delivery Aggregates		Flow Measurement		
		Mass Flow Meters & Controllers		
		Variable Area Flow Meter		Automatic Miniature Fire Extinguisher
		Gas and Air Flow		
		Process Refractometers for Concentration		
		Vessel Lights Sight Glasses Vessel Closures		Process & High Temperature Cameras, Particle Size Systems Software & Hardware

I. Company Profile

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 day-to-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.

I. Company Profile

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



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Sales Team



Technical Support

Finance, Accounting & Logistics



Service Team

I. Company Profile

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



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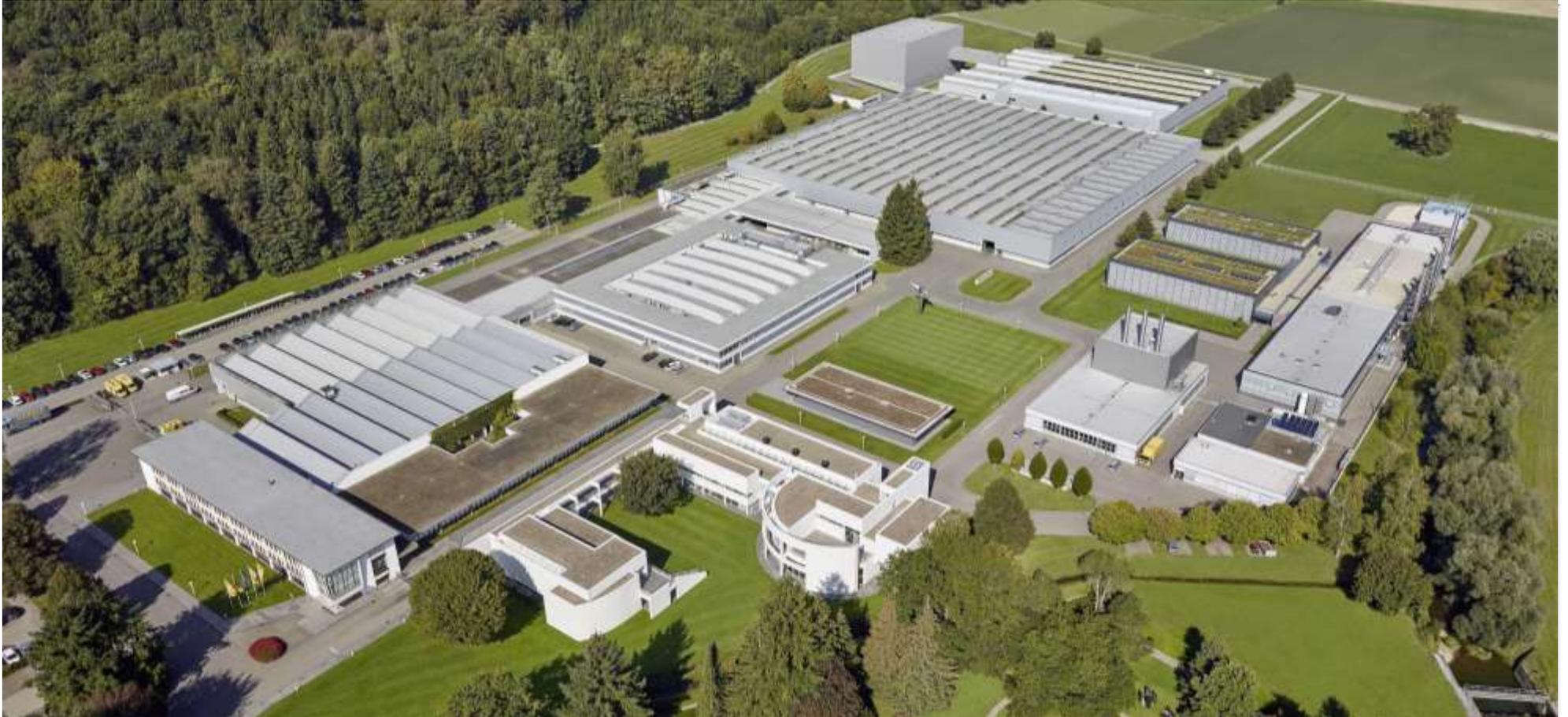


II. Solutions for Industrial Heat Applications

1. Weishaupt Headquarters in Schwendi, Germany



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II. Solutions for Industrial Heat Applications

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



–weishaupt–



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–weishaupt–
That's reliability.

II. Solutions for Industrial Heat Applications

1. Weishaupt – from low to high capacity ranges.

Oil, gas and dual-fuel burners

W range

- Exemplary efficiency
- Excellent emission levels
- Sophisticated technology
- Versatility: **4.5 - 700 kW**
- Long life



Oil-gas and dual-fuel burners

WM monarch® range

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



Oil, gas and dual-fuel burners

Special version ZMI – PLN – ULN

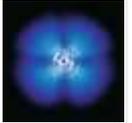
- Extended turndown range **ZMI** – Gas burner
- Extremely low NOx values **PLN – ULN**
4.5 kW – 11.000 kW
- Excellent serviceability
- Long life



Oil, gas and dual-fuel burners

Burners with multiflam® technology

- Low NOx emissions
- Optimum combustion
- Safe and simple principle
- Great versatility:
700 - 23.000 kW
- Digital combustion equipment
- Long life



Oil, gas and dual fuel burners

Industrial burners WK & WKmono

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



II. Solutions for Industrial Heat Applications

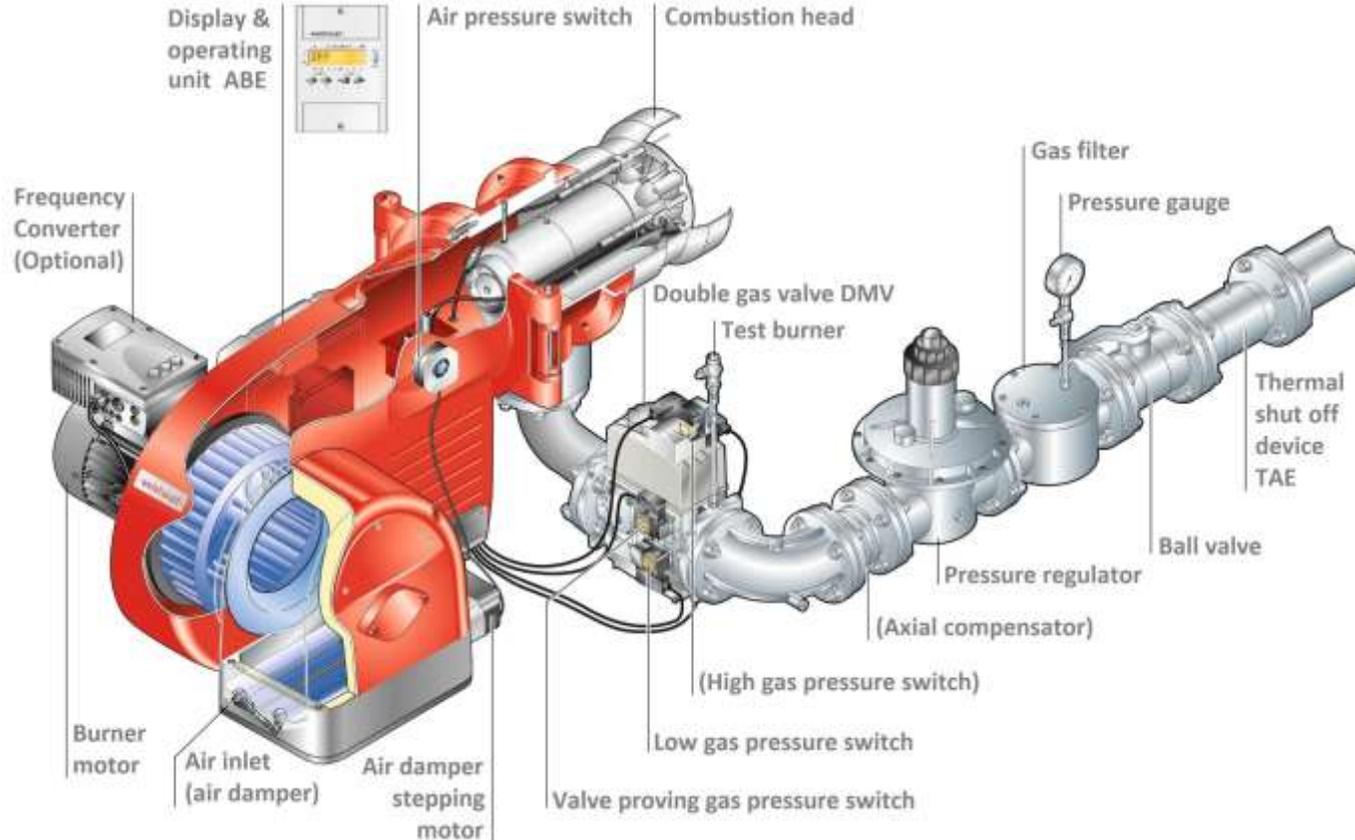
1. Weishaupt Gas Burner Monarch® WM-G10/20/30/50



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WM-G30 with flanged gas valve train DMV



[WM – gas burner](#)
[CAD portal](#)

II. Solutions for Industrial Heat Applications

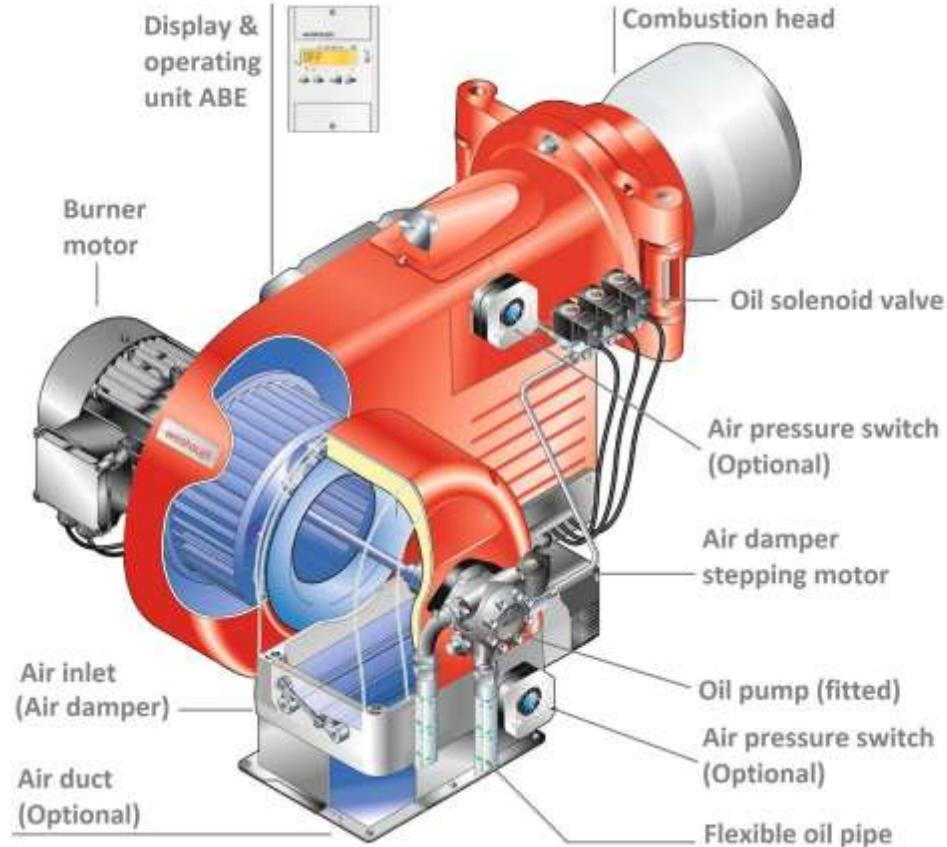
1. Weishaupt Oil Burner Monarch® WM-L10/20/30/50



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WM-L30 – Oil operation with components visible externally



[WM – oil burner
CAD portal](#)

II. Solutions for Industrial Heat Applications

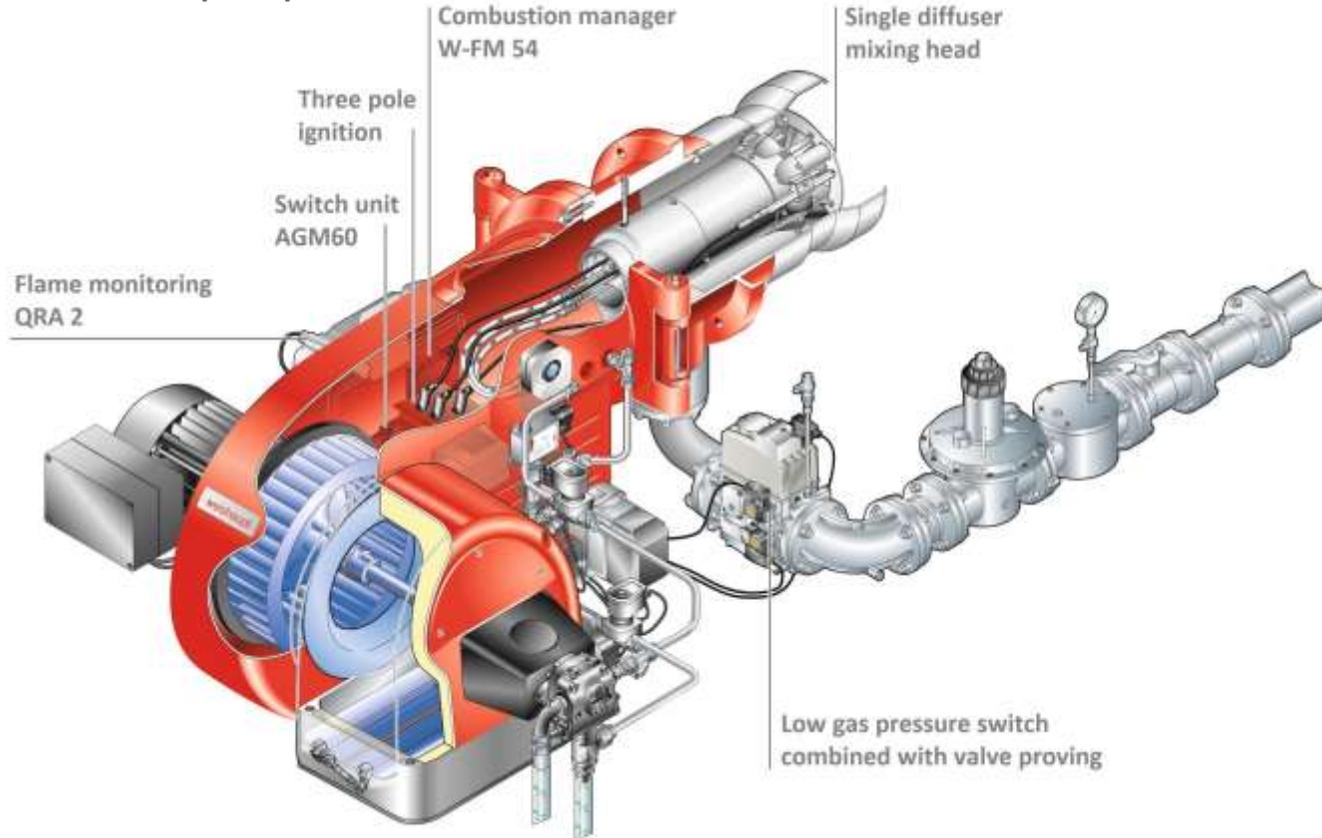
1. Weishaupt Dual Fuel Burner Monarch® WM-GL10/20/30/50



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WM-GL30 – Dual fuel burner with principle differences



[WM](#)
[Dual fuel burner](#)
[CAD portal](#)

II. Solutions for Industrial Heat Applications



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1. Weishaupt: Many Applications in various Industries



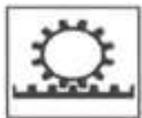
Waste recycling

- Waste incineration
- Process incineration



Wood industry

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



Metal industry

- Smelter
- Paint drying
- Degreasing



II. Solutions for Industrial Heat Applications

1. Weishaupt: Many Applications in various Industries



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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



II. Solutions for Industrial Heat Applications

1. Weishaupt: Many Applications in various Industries



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Transport

- Asphalt mixing plant



Stone and soil

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



II. Solutions for Industrial Heat Applications

1. Weishaupt with Digital Burner Technology



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II. Solutions for Industrial Heat Applications

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



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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



II. Solutions for Industrial Heat Applications

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



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Fault History

Lockout Historie

Alarm act/deact

1 Class: 00 Gas
Code: A6 Phase: 12
Diag: 51 Lod: 0.0
Start No: 8

Pt 100
sensor break
on input X60:1/4

3 07.09.00 11.32
C:15 D: 07 P: 60
Start-No: 119
Load: 10.0 Gas

Error Actuator
Ratio Control

Setpoint: 240°C
Act Value: 54°C
Fuel: Gas
Standby: 12

Waiting for
Start Release 21

Start
Fan on 22

Setpoint: 240°C
Act Value: 240°C
Load: 68.0%
Flame: 94.4%

1 Class: 00 Gas
Code: 32 Phase: 03
Diag: 00 Lod: 0.0
Start No: 1772

No Gas Pressure
Valve monitoring
Valve on Burner
Side leaking

6 15.12.12 18:16
C:19 D: 04 P: 60
Start No: 1761
Load: 81.5 Gas

Internal Fault
Actuator

32	-	Valve proving gas pressure switch has dropped out, contact closed, V2 or ignition gas valve leaking or V1 does not open.	<ul style="list-style-type: none"> Check gas pressure switch Check double gas valve
19	01 ... 2F	Actuator error during comparison between potentiometer channel A and B	<ul style="list-style-type: none"> If several faults occur, the diagnosis codes are add up. Self allowed Pot.diff to 15, see [ch. 6.13.3]. Check CAN Bus connection [ch. 5.1].
	01	Air actuator fault	
	02	Fuel actuator fault	
	04	Auxiliary actuator1 fault (Sliding sleeve)	
	08	Auxiliary actuator2 fault	
	20	Auxiliary actuator3 fault	

Gas direct ignition

The diagram shows the sequence of events during gas direct ignition, including: Operating phase, Timer events, Fuel valve (GAS), Safety circuit, Temperature guard internal, Controller ON, Flame signal, Air press. switch APS, Br/Fan motor aux-contact, FGR-UP alt. to GFK, CFI alt. to valve proving OK, Release Gas, Lockout HGPS, Gas pressure switch GRSVP, Burner motor / Fan, Ignition, Start signal / DW valve, Alarm, Safety relay internal, Safety relay Gas, Valve pilot ignition Gas, Fuel valve 1 Gas, and Fuel valve 2 Gas.

II. Solutions for Industrial Heat Applications

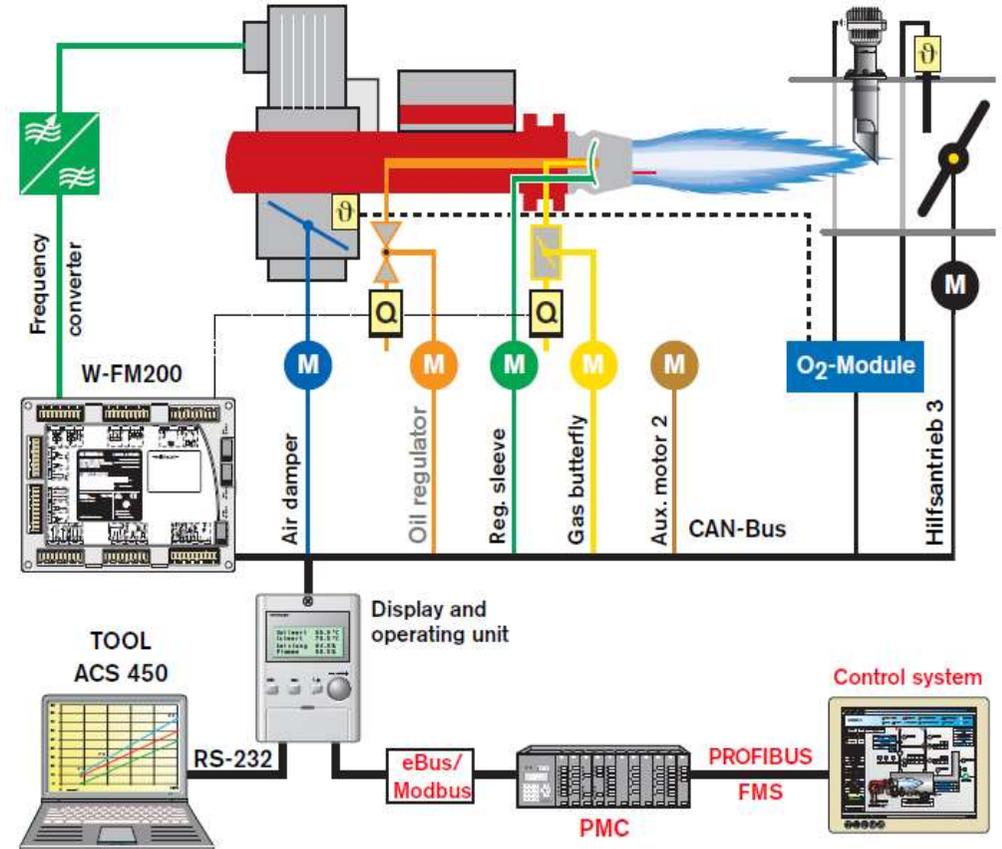
1. Weishaupt with Digital Combustion Management W-FM



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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

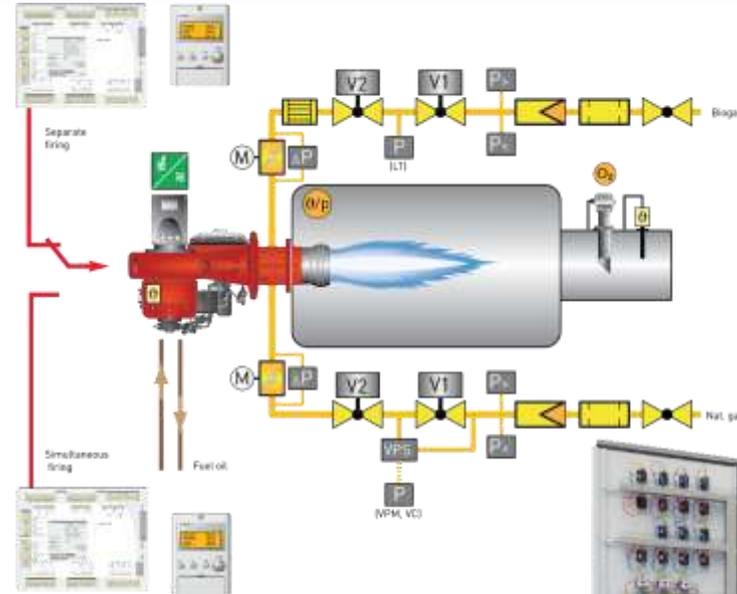


II. Solutions for Industrial Heat Applications

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.



One of many solutions: Burner system with two W-FM 200 combustion managers for separate or simultaneous combustion.



Weishaupt control panel with two W-FM 200 combustion managers

II. Solutions for Industrial Heat Applications

1. Weishaupt burners with excellent Turndown Ratios



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Burner Turndown affects Efficiency:

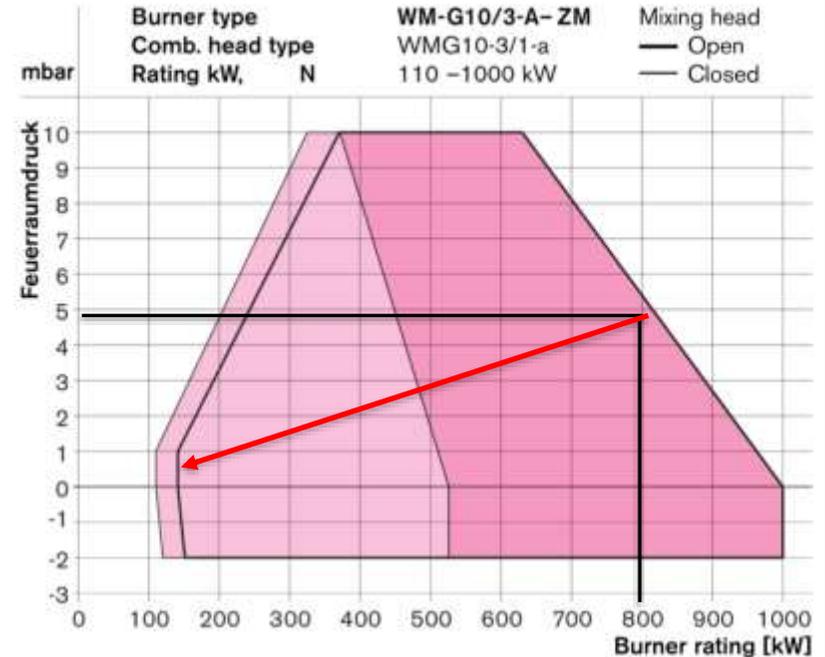
-  Burner turndown is important for fuel savings especially during mid- and low-load conditions.
-  Weishaupt gas burners have a turndown ratio of up to **1:10**. In practice, still many burners operate at 1:3 turndown.
-  Frequent boiler cycling also introduces thermal shock to the boiler tubes and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

Name plate

-weishaupt-	Max Weishaupt GmbH D-99076 Schweinfurt, Germany www.weishaupt.de
CE 0085 02 0085 DG 0027	Burner type WM-G10/3-A - maxisort Version ZM Distribution country DE Serial No. 9270019 - Cat. 510/38 Year of manufacture 2009 Type of gas H Rating min. 110 - max. 1000 kW Connection press. min. 15 - max. 900 mbar Fuel oil min. - max. Ag/Th NOx-Cl. 1 Pollution 91-92 Control voltage 230 V, 1-, 50/60 Hz 10 A gr. Main voltage 400 V, 3-, 50/60 Hz Elec. rating 1.0 kW - (1111) - XRE Made in Germany



Capacity graph WM-G10/3 version ZM



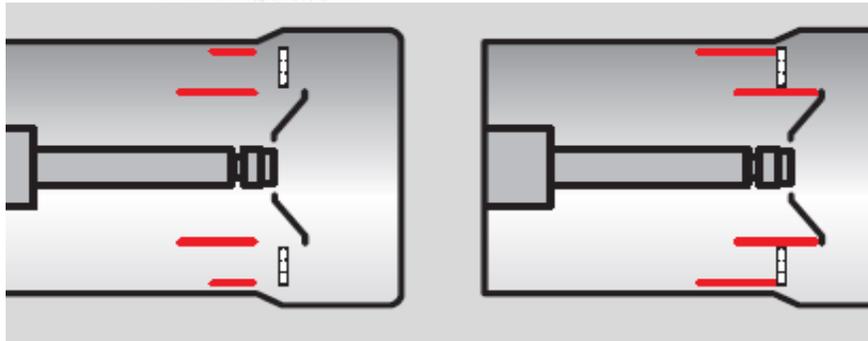
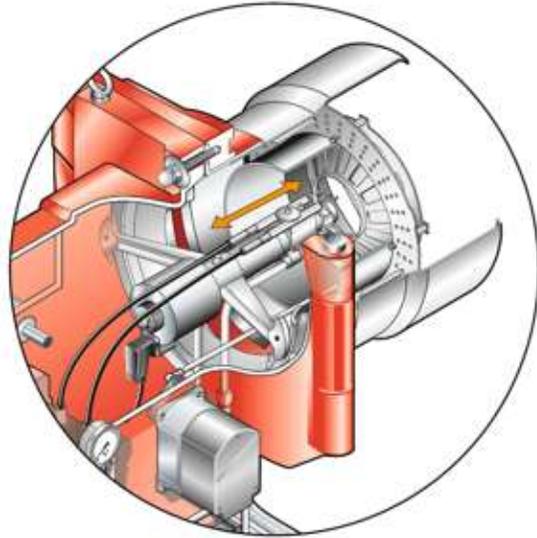
WM-G10/3 version ZM with turndown ratio of **1:8**
Possible min capacity of almost **100 kW** at max capacity of **800 kW**

II. Solutions for Industrial Heat Applications

1. Weishaupt burners with sophisticated Mixing Heads / Sliding Sleeves



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II. Solutions for Industrial Heat Applications

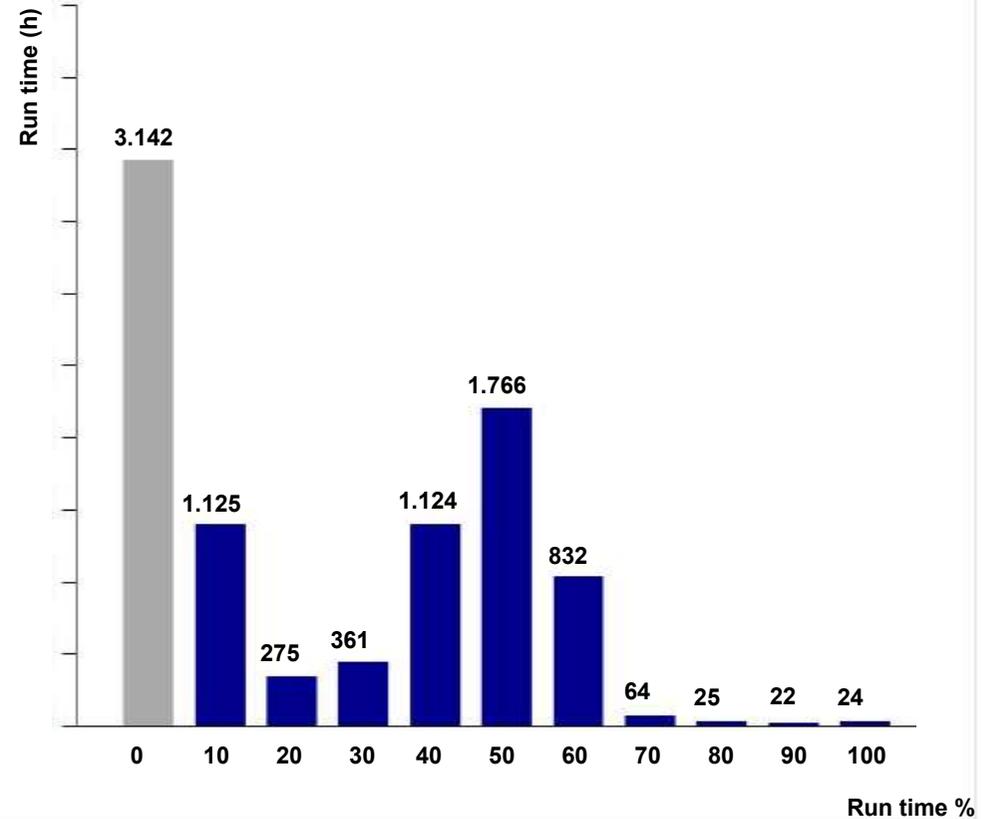


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1. Weishaupt Efficiency Calculator

Installation data

Boiler system	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.

II. Solutions for Industrial Heat Applications

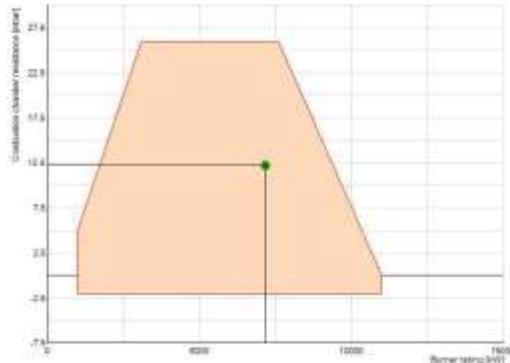


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1. Weishaupt Efficiency Calculator

Burner data

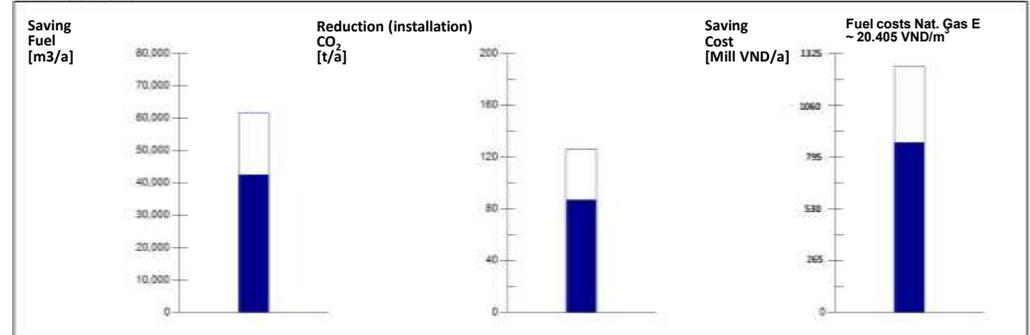
Burner type (new)	WM-G50/2-A ZM-NR		Burner type (old)		
Max. combustion capacity	11.000	kw	Max. combustion capacity	8.000	kw
Min. combustion capacity	1.000	kw	Min. combustion capacity	1.000	kw
Type of operation	Modulating		Type of operation	Modulating	
Fuel	Nat. Gas E	10.24 kWh/m ³	Fuel	Nat. Gas E	10.24 kWh/m ³
O ₂ (Partial load)	4.0	Vol%	O ₂ (Partial load)	6.0	Vol%
O ₂ (Interm. load)	3.0	Vol%	O ₂ (Interm. load)	5.5	Vol%
O ₂ (Full load)	2.0	Vol%	O ₂ (Full load)	4.5	Vol%
Motor rating	19	kw	Motor rating	18	kw



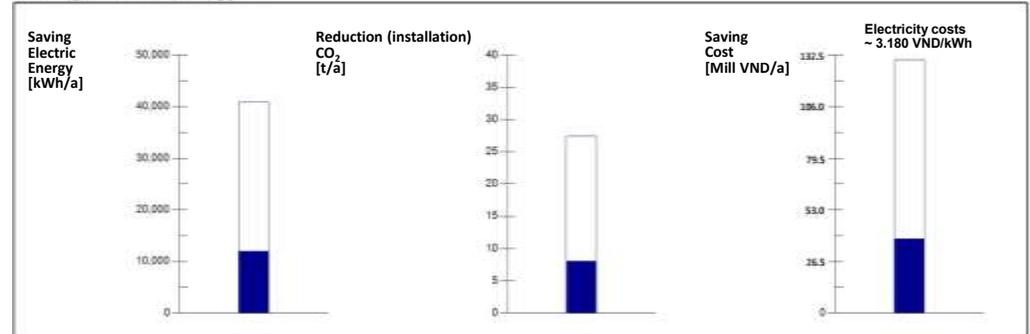
Saving

Burner equipment	Modulating
Speed control	no
O ₂ trim	no

Saving Fuel



Saving electric Energy



II. Solutions for Industrial Heat Applications



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1. Weishaupt Efficiency Calculator

Burner and service costs

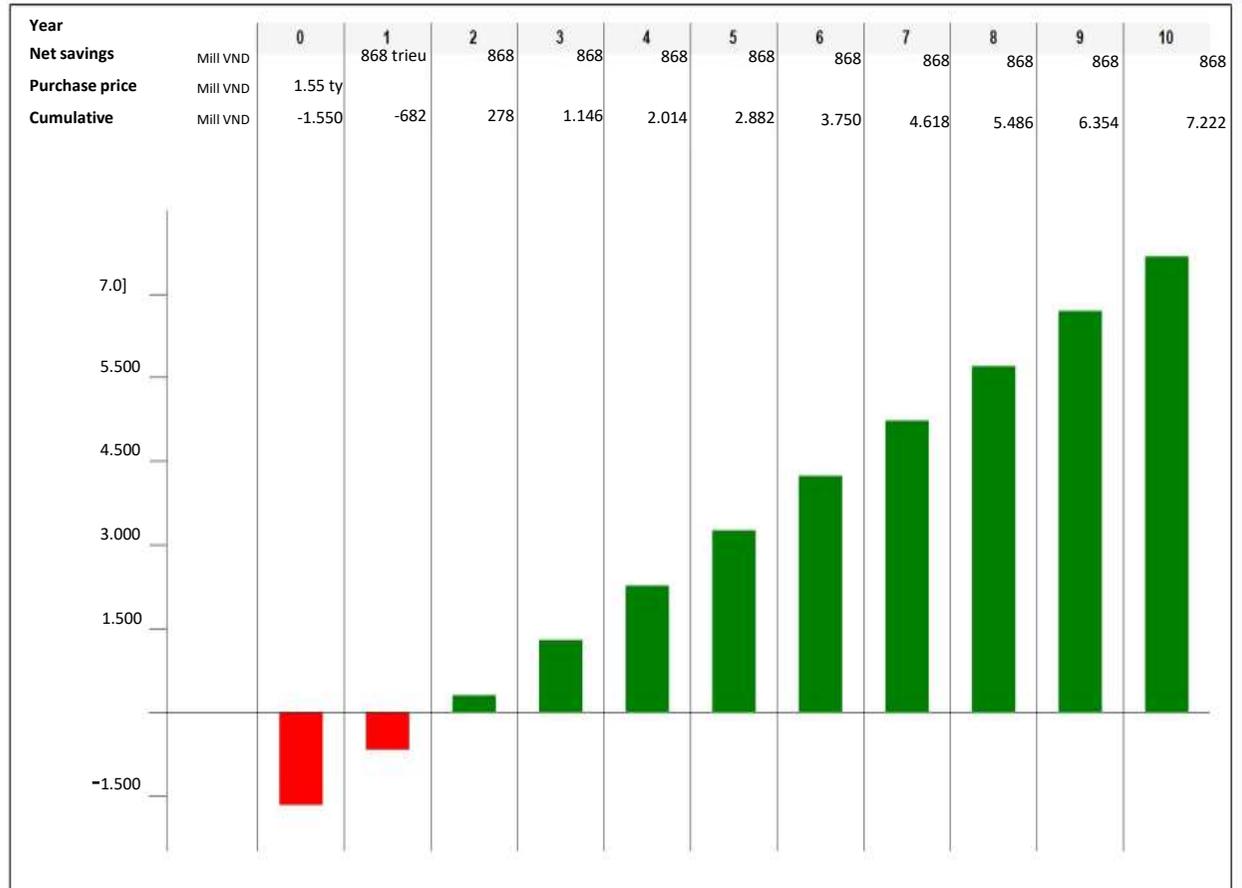
Costs burner	~ 1.100	Mill VND
Costs accessories	~ 400	Mill VND
Costs service	~ 40	Mill VND
Calculation period	10	Years

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.



II Solutions for Industrial Heat Applications

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



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II. Solutions for Industrial Heat Applications

1. Weishaupt W burner references in Vietnam



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WG40
Hot water boiler



WG30
Roaster



WG20
Baking oven



WG40
Thermal oil heater



WG20
Ceramic kiln



WG40
Powder Coating System



II. Solutions for Industrial Heat Applications

1. Weishaupt WM monarch® burner references



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4 x WM-G10
Coffee roaster



WM-G10
Hot water boiler



WM-G10
High pressure steam boiler



WM-G20
Steam boiler



WM-GL30
Thermal oil heater



WM-L50
Hot gas generator



II. Solutions for Industrial Heat Applications

1. Weishaupt WK burner references



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WKG50 – Steam boiler



WKGL50 – Air heater



WKGL70 – Thermal oil heater



WKGL50 – Fryer



WKGL50 – Thermal oil heater



WKGL70 – Thermal oil heater



II. Solutions for Industrial Heat Applications

1. Typical Weishaupt burner installation support & supervision



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II. Solutions for Industrial Heat Applications

1. Typical Weishaupt burner installation support & supervision



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II. Solutions for Industrial Heat Applications

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



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II. Solutions for Industrial Heat Applications

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



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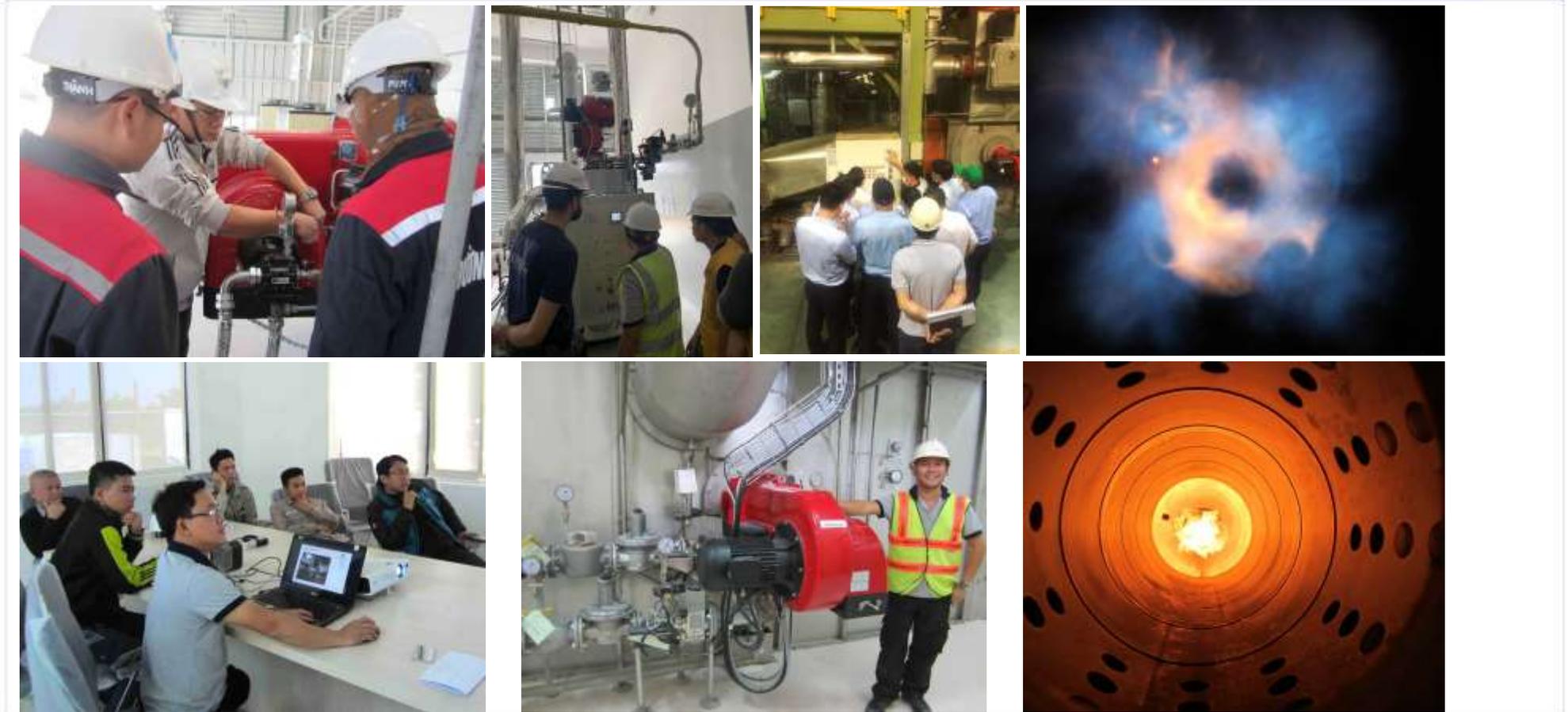


II. Solutions for Industrial Heat Applications

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



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II. Solutions for Industrial Heat Applications

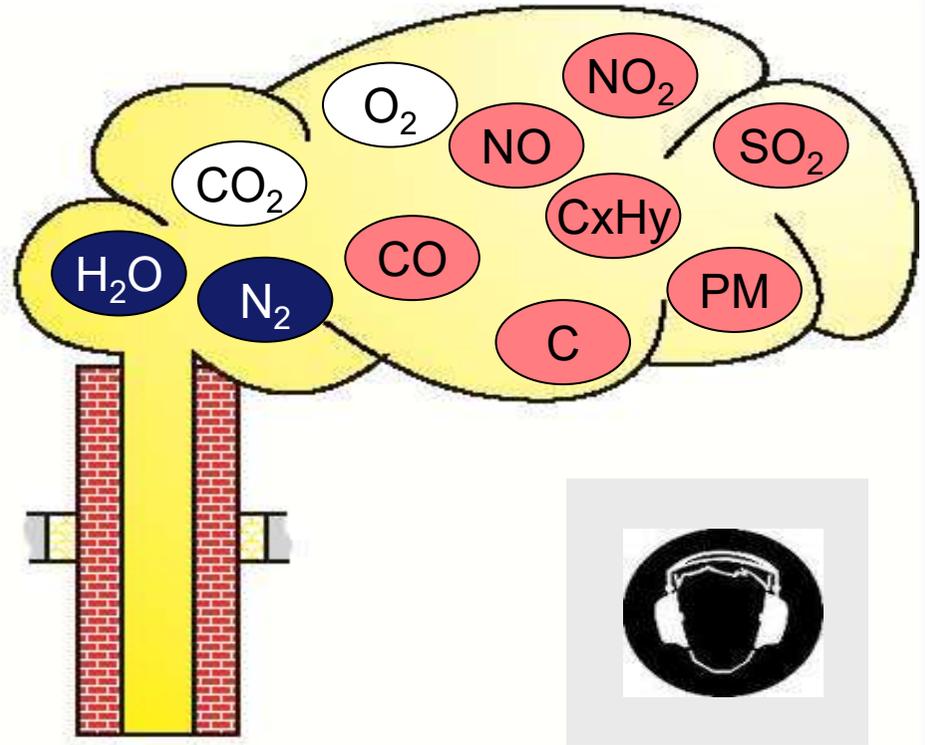
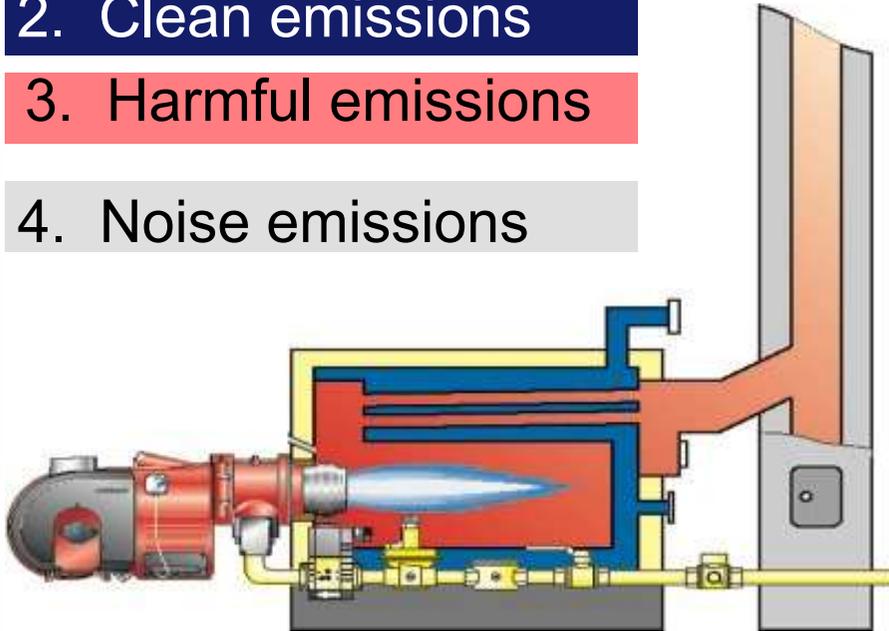
1. Overview Emissions

1. Efficiency

2. Clean emissions

3. Harmful emissions

4. Noise emissions



II. Solutions for Industrial Heat Applications

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

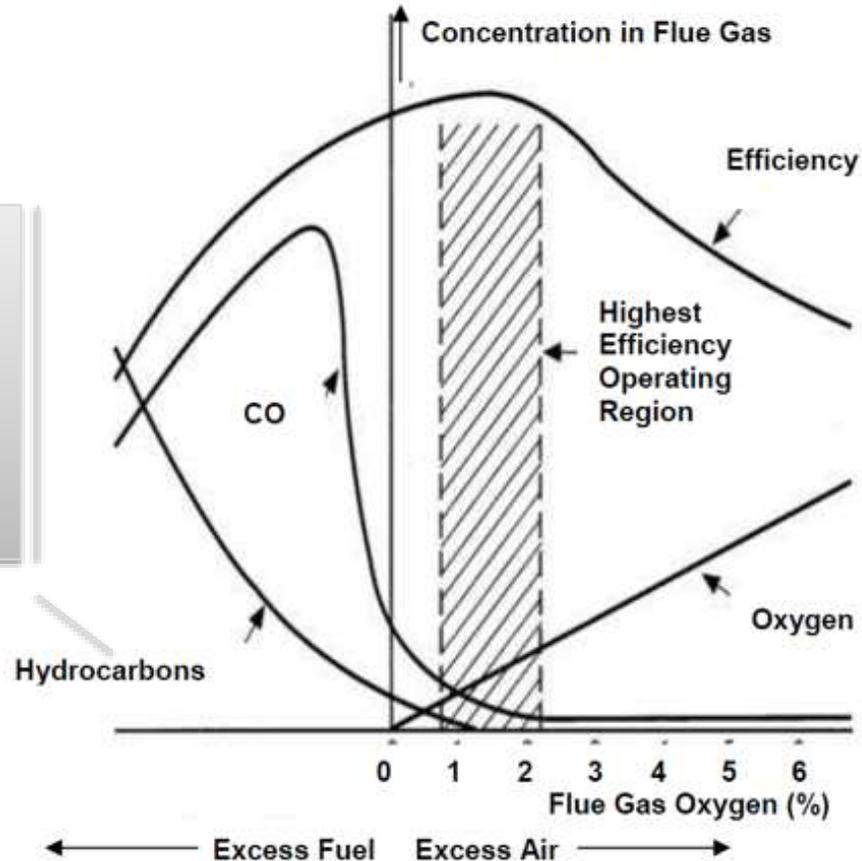


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Unburned fuel (carbon monoxide, hydrocarbon, etc.) and higher than required excess air levels result

- in poor performance,
- overall efficiency reduction
- and unnecessary spending.



Higher excess air means lower combustion efficiency.

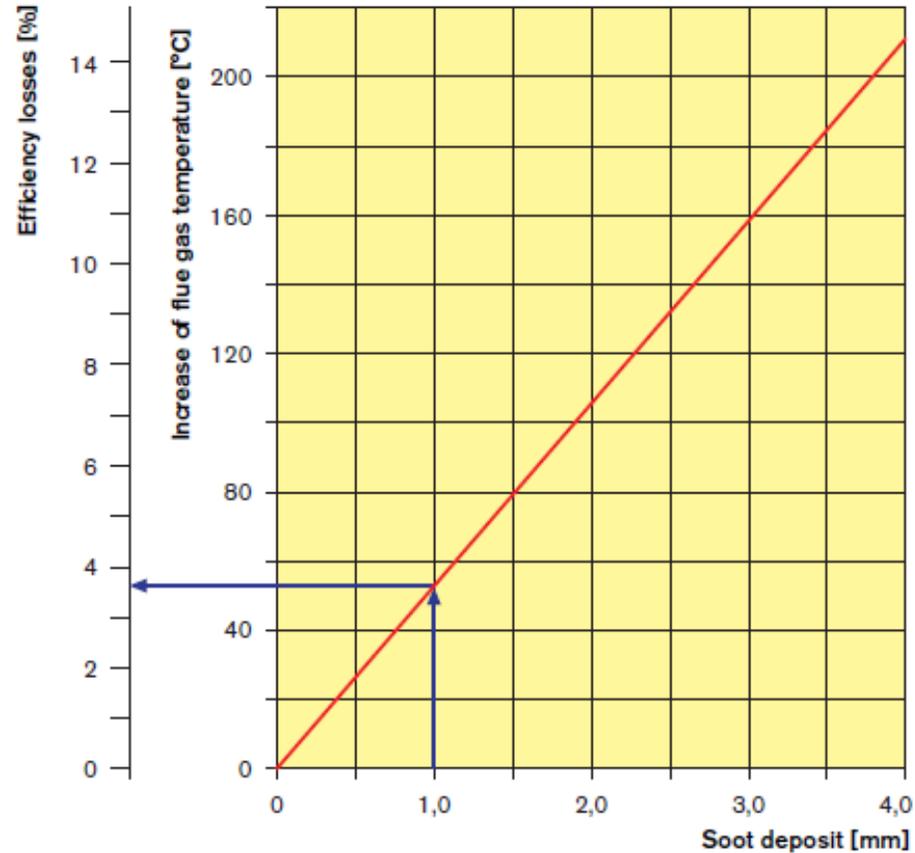
II. Solutions for Industrial Heat Applications

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



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II. Solutions for Industrial Heat Applications

2. ecom® Headquarters in Iserlohn, Germany



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II. Solutions for Industrial Heat Applications

2. ecom Flue Gas Analyser Range



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II. Solutions for Industrial Heat Applications

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



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-  **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)
 - H₂S (0-1.000 ppm)
 - NH₃ (0-1.000 ppm)
 - HCl (0-100 ppm)

-  **Options (infrared bench):**
- CO% (0 - 63.000 ppm)
 - CO₂ (0 - 20%)
 - C₃H₈ (0 - 2.000 ppm)
 - CH₄ (0 - 30.000 ppm)
 - Differential temperature
 - Soot measurement

-  **Calculated values:**
- CO₂
 - CO_(undiluted)
 - Losses
 - Efficiency (0 – 120%)
 - NO_x
 - mg/m³
 - mg/kWh
 - Excess air
 - Dew point
 - Adjustable O₂ ref.

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

II. Solutions for Industrial Heat Applications

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



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ecom-B
small | handy | robust



ecom-EN3
quick | compact | accurate



ecom-J2KNpro EXPERT
robust | professional | flexible



ecom-ST
stationary analyser | autonomous |
quasi-continuous



ecom-DP
flexible | accurate | performing



ecom-
safe identification of
leakages at gas pipes



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

II. Solutions for Industrial Heat Applications

2. ecom: Unique Selling Points ecom® Products



HUYNH BANG

 EXTREMELY precise		 EXTREMELY efficient		 EXTREMELY complete	
 EXTREMELY broad reach	 	 <p>10 JAHRE GARANTIE 10ANS GARANTIE</p>	 EXTREMELY safe		
 EXTREMELY cool			 EXTREMELY robust		 EXTREMELY lossless

II. Solutions for Industrial Heat Applications

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



HUYNH BANG

1	2	3	4
<p>***** * ECOM - EN2 * ***** Date: Time 28.05.16 13:37:18</p> <p>Gas analysis</p> <p>Fuel type Natural Gas</p> <p>T.Air 38 °C T.Gas 72 °C O2 1.5 % CO 57 PPM NO 60 PPM NOx 0 PPM SO2 0 PPM CO2 9.5 % EFF. 88.3 % Losses 11.7 % Exc. air 1.23 Dew Poi. 55 °C</p> <p>Huynh Bang Company Ltd. Room 505 Fideco Building 14 Thao Dien District 2 HCM City Viet Nam Tel: +84837449002 Fax: +84837449004 Email: info@huyhbang.com Web: www.huyhbang.com</p>	<p>***** * ECOM - EN2 * ***** Date: Time 28.05.16 13:42:09</p> <p>Gas analysis</p> <p>Fuel type Natural Gas</p> <p>T.Air 38 °C T.Gas 85 °C O2 3.8 % CO 0 PPM NO 48 PPM NOx 50 PPM SO2 0 PPM CO2 9.6 % EFF. 88.0 % Losses 12.0 % Exc. air 1.22 Dew Poi. 55 °C</p> <p>Huynh Bang Company Ltd. Room 505 Fideco Building 14 Thao Dien District 2 HCM City Viet Nam Tel: +84837449002 Fax: +84837449004 Email: info@huyhbang.com Web: www.huyhbang.com</p>	<p>***** * ECOM - EN2 * ***** Date: Time 28.05.16 13:42:04</p> <p>Gas analysis</p> <p>Fuel type Natural Gas</p> <p>T.Air 40 °C T.Gas 96 °C O2 3.6 % CO 0 PPM NO 46 PPM NOx 48 PPM SO2 0 PPM CO2 9.7 % EFF. 87.6 % Losses 12.4 % Exc. air 1.21 Dew Poi. 55 °C</p> <p>Huynh Bang Company Ltd. Room 505 Fideco Building 14 Thao Dien District 2 HCM City Viet Nam Tel: +84837449002 Fax: +84837449004 Email: info@huyhbang.com Web: www.huyhbang.com</p>	<p>***** * ECOM - EN2 * ***** Date: Time 28.05.16 13:43:00</p> <p>Gas analysis</p> <p>Fuel type Natural Gas</p> <p>T.Air 42 °C T.Gas 105 °C O2 1.3 % CO 0 PPM NO 47 PPM NOx 49 PPM SO2 0 PPM CO2 9.9 % EFF. 87.3 % Losses 12.7 % Exc. air 1.19 Dew Poi. 55 °C</p> <p>Huynh Bang Company Ltd. Room 505 Fideco Building 14 Thao Dien District 2 HCM City Viet Nam Tel: +84837449002 Fax: +84837449004 Email: info@huyhbang.com Web: www.huyhbang.com</p>



Flue gas analyzer display in operation

5	6	7	8
<p>***** * ECOM - EN2 * ***** Date: Time 28.05.16 13:44:28</p> <p>Gas analysis</p> <p>Fuel type Natural Gas</p> <p>T.Air 44 °C T.Gas 115 °C O2 3.1 % CO 0 PPM NO 49 PPM NOx 51 PPM SO2 0 PPM CO2 10.0 % EFF. 86.9 % Losses 13.1 % Exc. air 1.17 Dew Poi. 55 °C</p> <p>Huynh Bang Company Ltd. Room 505 Fideco Building 14 Thao Dien District 2 HCM City Viet Nam Tel: +84837449002 Fax: +84837449004 Email: info@huyhbang.com Web: www.huyhbang.com</p>	<p>***** * ECOM - EN2 * ***** Date: Time 28.05.16 13:45:05</p> <p>Gas analysis</p> <p>Fuel type Natural Gas</p> <p>T.Air 45 °C T.Gas 122 °C O2 3.0 % CO 0 PPM NO 48 PPM NOx 50 PPM SO2 0 PPM CO2 10.8 % EFF. 86.7 % Losses 13.3 % Exc. air 1.12 Dew Poi. 55 °C</p> <p>Huynh Bang Company Ltd. Room 505 Fideco Building 14 Thao Dien District 2 HCM City Viet Nam Tel: +84837449002 Fax: +84837449004 Email: info@huyhbang.com Web: www.huyhbang.com</p>	<p>***** * ECOM - EN2 * ***** Date: Time 28.05.16 13:45:47</p> <p>Gas analysis</p> <p>Fuel type Natural Gas</p> <p>T.Air 46 °C T.Gas 137 °C O2 2.8 % CO 0 PPM NO 49 PPM NOx 51 PPM SO2 0 PPM CO2 10.1 % EFF. 86.5 % Losses 13.5 % Exc. air 1.15 Dew Poi. 55 °C</p> <p>Huynh Bang Company Ltd. Room 505 Fideco Building 14 Thao Dien District 2 HCM City Viet Nam Tel: +84837449002 Fax: +84837449004 Email: info@huyhbang.com Web: www.huyhbang.com</p>	<p>***** * ECOM - EN2 * ***** Date: Time 28.05.16 13:46:50</p> <p>Gas analysis</p> <p>Fuel type Natural Gas</p> <p>T.Air 51 °C T.Gas 140 °C O2 2.1 % CO 0 PPM NO 51 PPM NOx 54 PPM SO2 0 PPM CO2 10.5 % EFF. 86.3 % Losses 13.7 % Exc. air 1.11 Dew Poi. 56 °C</p> <p>Huynh Bang Company Ltd. Room 505 Fideco Building 14 Thao Dien District 2 HCM City Viet Nam Tel: +84837449002 Fax: +84837449004 Email: info@huyhbang.com Web: www.huyhbang.com</p>

9
<p>***** * ECOM - EN2 * ***** Date: Time 28.05.16 13:51:11</p> <p>Gas analysis</p> <p>Fuel type Natural Gas</p> <p>T.Air 51 °C T.Gas 150 °C O2 2.0 % CO 0 PPM NO 51 PPM NOx 54 PPM SO2 0 PPM CO2 10.6 % EFF. 85.8 % Losses 14.2 % Exc. air 1.11 Dew Poi. 56 °C</p> <p>Huynh Bang Company Ltd. Room 505 Fideco Building 14 Thao Dien District 2 HCM City Viet Nam Tel: +84837449002 Fax: +84837449004 Email: info@huyhbang.com Web: www.huyhbang.com</p>

Pressure Test results



II. Solutions for Industrial Heat Applications

2. ecom flue gas analysers in the field



HUYNH BANG

ecom-EN2



ecom-J2KNpro



ecom-ST



O2	1.12	%
CO2 IR	10.05	%
CO	0	ppm
NO	62.4	ppm
NO2	0.3	ppm
T Air	36.7	°C
T Gas	287.3	°C
T Sensor	35.4	°C
Σ	0	ppm

II. Solutions for Industrial Heat Applications

2. ecom proven use in the field.



HUYNH BANG

ecom-EN2



ecom-EN2



ecom-UNO
Pressure measurement



ecom-LSG



Pressure test on gas valve train



II. Solutions for Industrial Heat Applications

2. ecom instruments critical for burner commissioning and troubleshooting



HUYNH BANG

ecom-EN3



ecom-EN2



ecom-LSG

ecom-LSG



ecom-UNO
Pressure measurement

II. Solutions for Industrial Heat Applications

3. Bosch Industrial Boilers located in Gunzenhausen (Germany)



HUYNH BANG



II. Solutions for Industrial Heat Applications

3. Bosch Industrial Boilers



HUYNH BANG



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

II. Solutions for Industrial Heat Applications

3. Bosch Industrial Boilers Portfolio



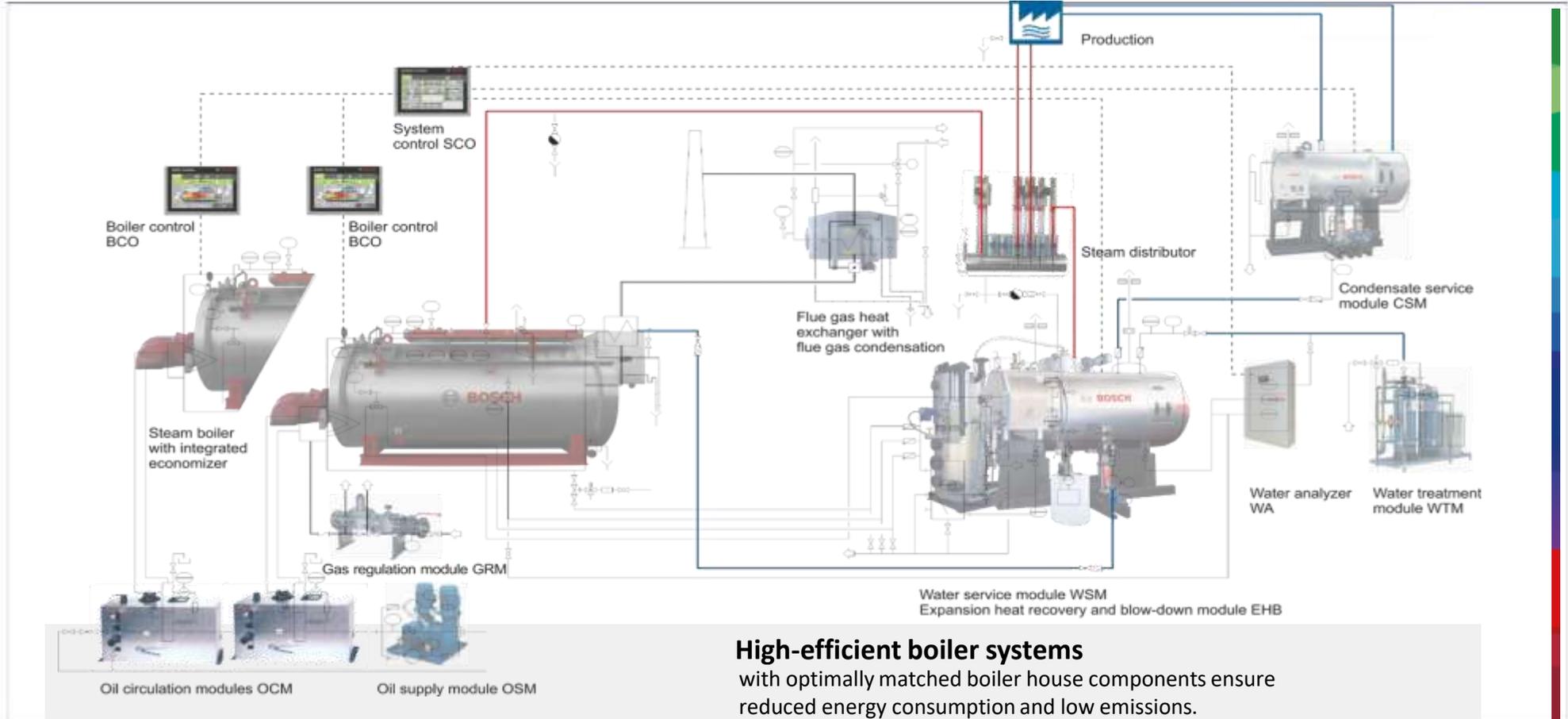
	Industrial boilers	Efficiency	Components	Controls																										
Heating / Hot water	 <table border="1"> <tr> <th></th> <th>UT-L</th> <th>UT-M</th> <th>UT-H</th> <th>UT-HZ</th> </tr> <tr> <td>Output</td> <td><1-25 MW</td> <td><1-19 MW</td> <td><1-18 MW</td> <td>13-38 MW</td> </tr> <tr> <td>T_{max}</td> <td>120 °C</td> <td>190 °C</td> <td>225 °C</td> <td>225 °C</td> </tr> <tr> <td>P_{max}</td> <td>16 bar</td> <td>16 bar</td> <td>30 bar</td> <td>30 bar</td> </tr> </table>		UT-L	UT-M	UT-H	UT-HZ	Output	<1-25 MW	<1-19 MW	<1-18 MW	13-38 MW	T _{max}	120 °C	190 °C	225 °C	225 °C	P _{max}	16 bar	16 bar	30 bar	30 bar	<p>Waste heat recovery boilers for steam / hot water</p> <p>Waste heat recovery steam boiler</p> <p>3-pass boiler without burner</p> <p>4-pass boiler with burner</p>	<p>Hydraulics e.g. pump modules</p> <p>Modules for: Water (+2%)</p> <p>Condensate (+12%)</p> <p>Steam</p> <p>Fuel</p>	<p>Intelligent control technology: Boiler controls and boiler system controls Efficiency assistant and remote access</p>						
		UT-L	UT-M	UT-H	UT-HZ																									
Output	<1-25 MW	<1-19 MW	<1-18 MW	13-38 MW																										
T _{max}	120 °C	190 °C	225 °C	225 °C																										
P _{max}	16 bar	16 bar	30 bar	30 bar																										
Steam / Process heat	 <table border="1"> <tr> <th></th> <th>U-MB</th> <th>CSB</th> <th>ELSB</th> <th>UL-S(X)</th> <th>ZFR(-X)</th> </tr> <tr> <td>Output</td> <td>0.2-2 t/h</td> <td>0.3-4.8 t/h</td> <td>0.3-5.2 t/h</td> <td>0.3-7.5 t/h</td> <td>1.2-28 t/h</td> <td>18-55 t/h</td> </tr> <tr> <td>T_{max}</td> <td>204 °C</td> <td>110 °C</td> <td>204 °C</td> <td>220 °C</td> <td>300 °C</td> <td>300 °C</td> </tr> <tr> <td>P_{max}</td> <td>6 bar</td> <td>0.5 bar</td> <td>16 bar</td> <td>24 bar</td> <td>30 bar</td> <td>30 bar</td> </tr> </table>		U-MB	CSB	ELSB	UL-S(X)	ZFR(-X)	Output	0.2-2 t/h	0.3-4.8 t/h	0.3-5.2 t/h	0.3-7.5 t/h	1.2-28 t/h	18-55 t/h	T _{max}	204 °C	110 °C	204 °C	220 °C	300 °C	300 °C	P _{max}	6 bar	0.5 bar	16 bar	24 bar	30 bar	30 bar	<p>Energy efficiency Recovery & utilisation</p> <p>+2.5%</p> <p>+7%</p>	<p>Modernisation and service</p> <p>24/7 service worldwide From commissioning and maintenance to expert training</p> <p>Upgrade of existing plants Project planning & modular system technology</p>
	U-MB	CSB	ELSB	UL-S(X)	ZFR(-X)																									
Output	0.2-2 t/h	0.3-4.8 t/h	0.3-5.2 t/h	0.3-7.5 t/h	1.2-28 t/h	18-55 t/h																								
T _{max}	204 °C	110 °C	204 °C	220 °C	300 °C	300 °C																								
P _{max}	6 bar	0.5 bar	16 bar	24 bar	30 bar	30 bar																								

II. Solutions for Industrial Heat Applications

3. Bosch high-efficient Boiler Systems



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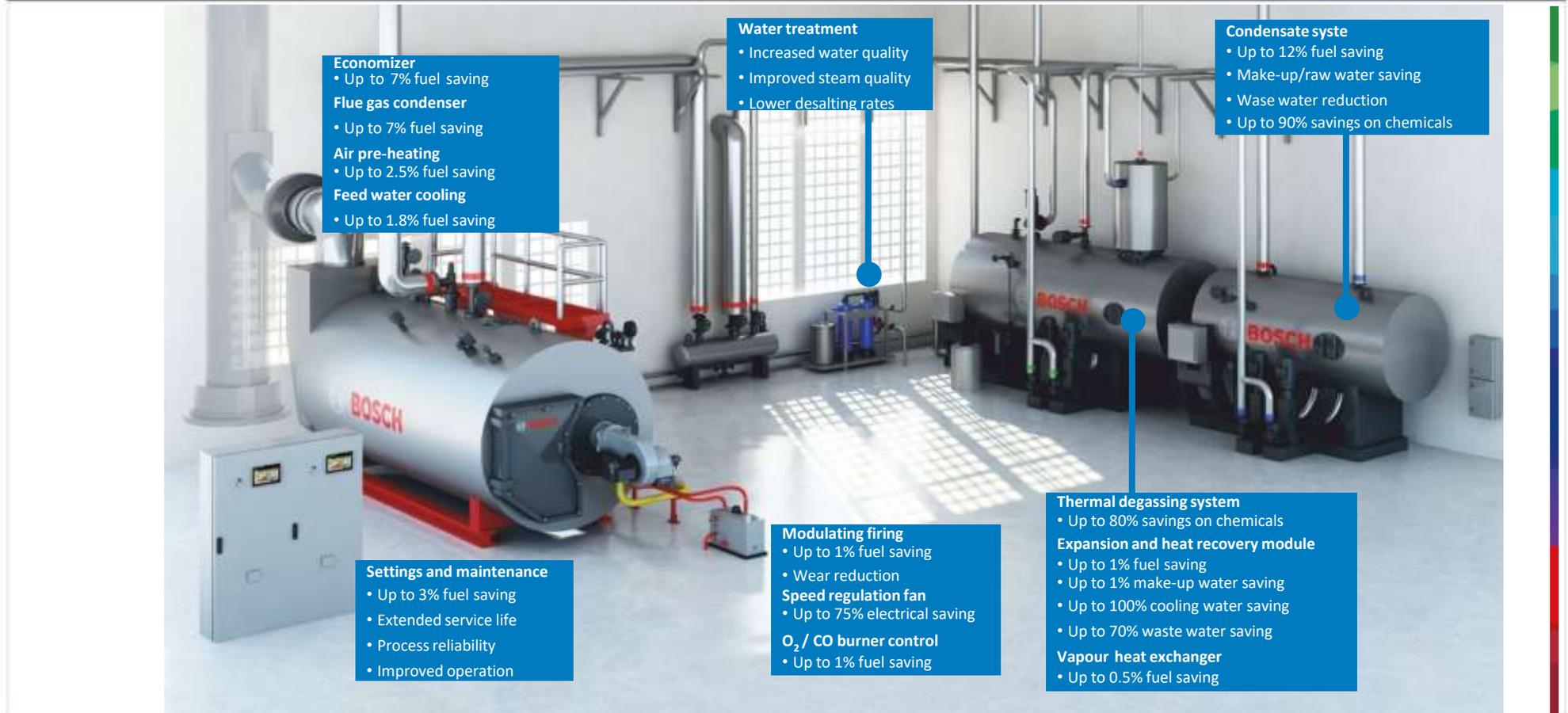


II. Solutions for Industrial Heat Applications

3. Bosch boiler house components, efficiency components and controls



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II. Solutions for Industrial Heat Applications

3. Bosch universal steam boiler type UL-S



HUYNH BANG

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.

II. Solutions for Industrial Heat Applications

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

II. Solutions for Industrial Heat Applications

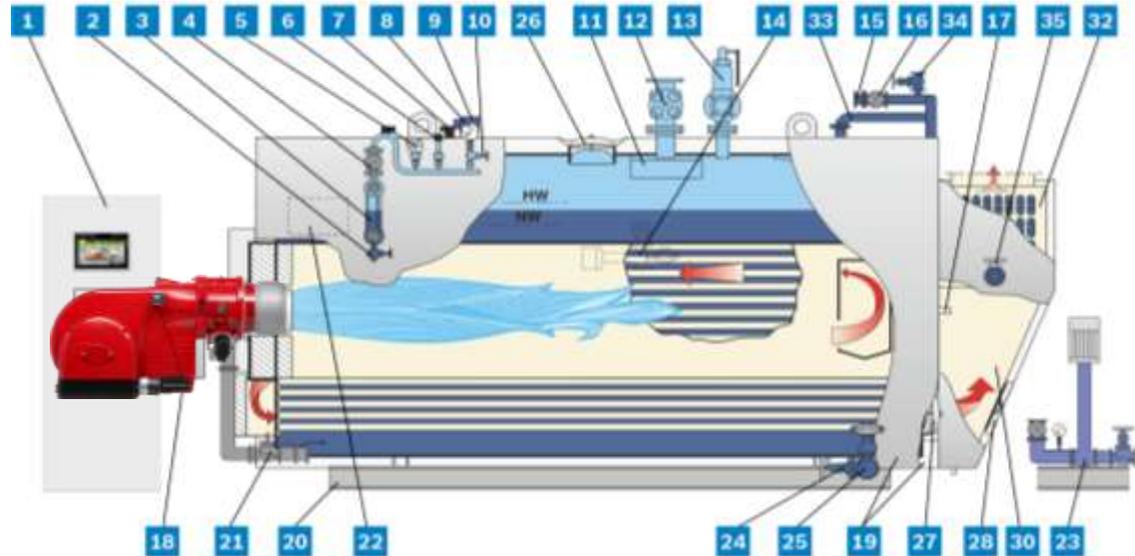
3. Bosch Steam Boiler equipment for UL-S



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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)

II. Solutions for Industrial Heat Applications

3. Bosch Quality Manufacturing – Four Points



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Precision in ideal position

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



Use of welding robots for highest precision

No tool-change related positioning errors

Fully automatic tube measurement / LiB sensor technology



Less weld seams increase quality

Specialised production equipment for metal plates up to 3.5 m width



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)

Around 25,000 developed films per year

II. Solutions for Measurement & Automation Applications

1. VEGA Headquarters in Schiltach, Germany



HUYNH BANG



THIS IS HOW IT
LOOKS AT **VEGA**



Headquarters in *Schiltach*,
Germany

1,150  Employees
in Schiltach

 60
Trainees

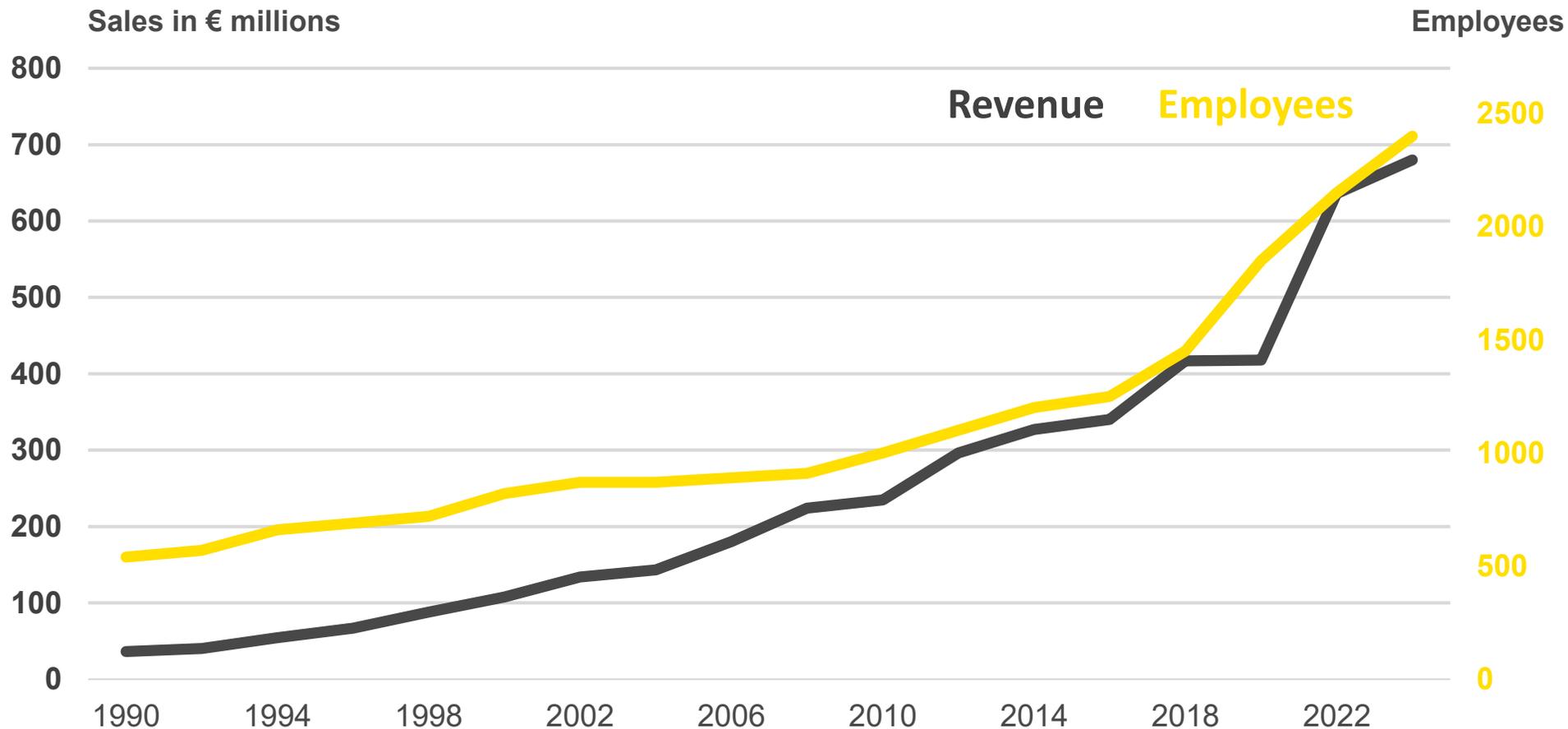
WORLDWIDE 
2,400 EMPLOYEES

supfina

grieshaber
PRECISION

VEGA

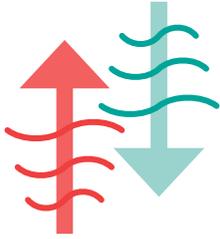
Focussed on long-term development



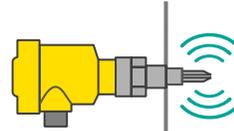


Product portfolio

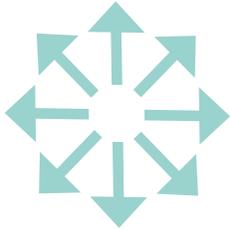
We produce measurement



Level measurement



Level detection

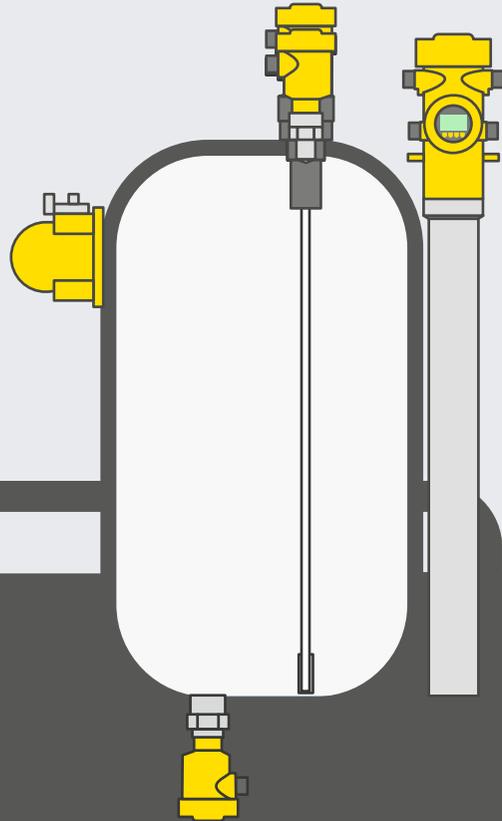


Pressure measurement



Control units & communication

Continuous level measurement



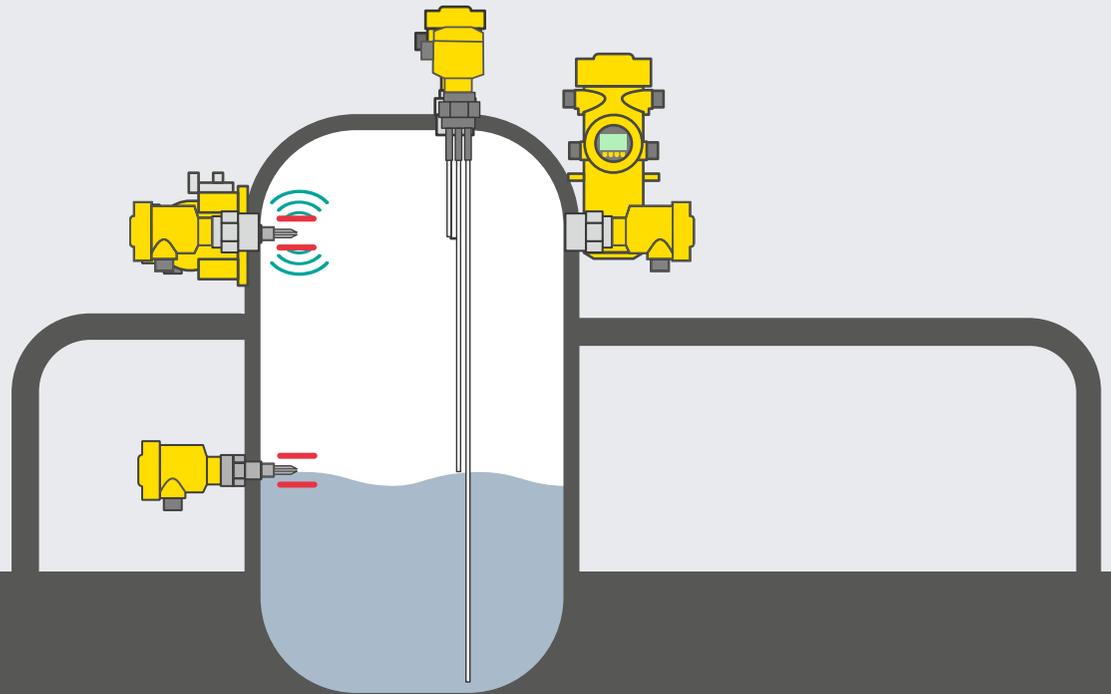
THE MEASUREMENT METHODS

- Radar
- Guided Radar
- Capacitive
- Radiometric
- Hydrostatic
- Ultrasonic

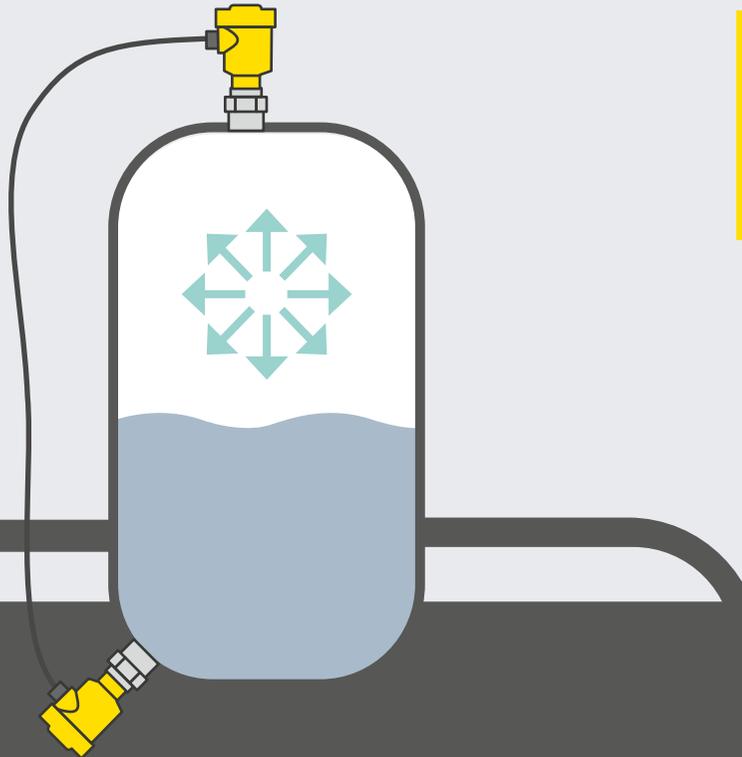
Safe level detection

THE MEASUREMENT METHODS

- Vibration
- Conductive
- Capacitive
- Radar
- Radiometric



Universal pressure measurement

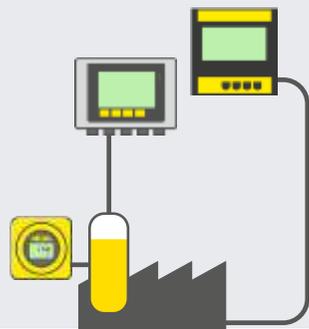


THE MEASUREMENT METHODS

- Process pressure
- Hydrostatic
- Differential pressure

Smart communication

- VEGAMET / VEGASCAN
- VEGATOR / VEGATRENN
- VEGADIS
- 4...20 mA / HART / Profibus PA / Foundation Fieldbus
- Ethernet
- Bluetooth
- NB-IoT / LoRa
- VEGA Inventory System





Industrial sectors

II. Solutions for Measurement & Automation Applications



HUYNH BANG

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



Water & wastewater



Energy



Chemical



Ore mining & metal extraction



Building materials



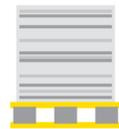
Food industry



Oil & gas offshore



Petrochemical



Paper



Shipbuilding



Pharmaceutical industry

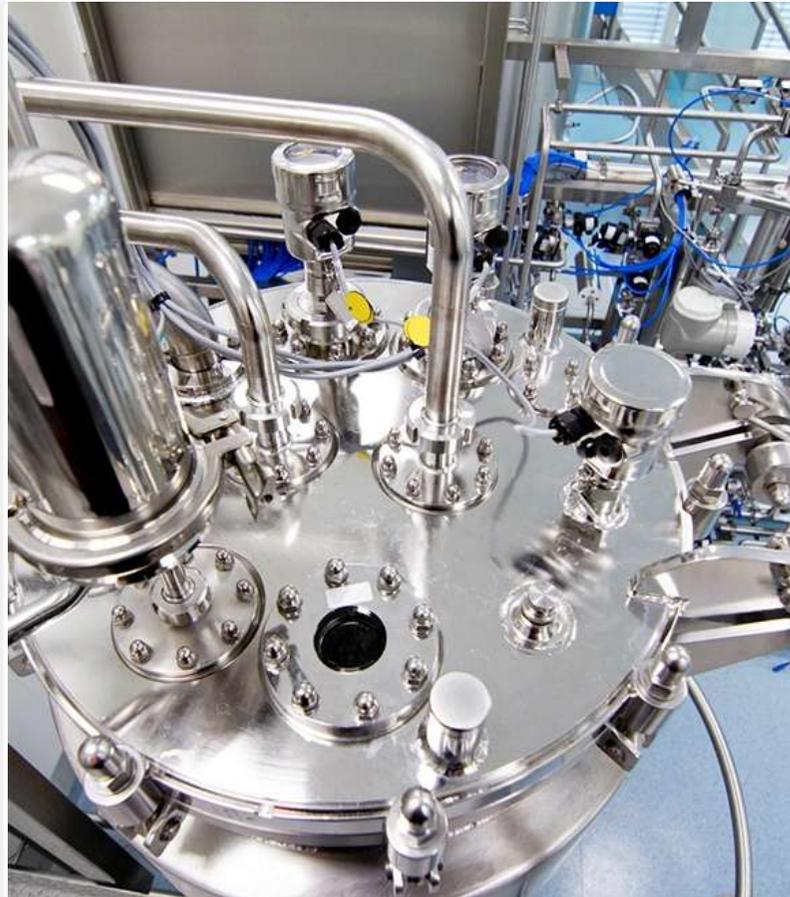


Environment & recycling



II. Solutions for Measurement & Automation Applications

1. VEGA in Food & Beverage Industry - Hygienically flawless



HUYNH BANG

COMPANY

Hygienic right from the start

- Expertly designed
- Perfect cleanability
- Standardised hygienic adapters

Reliable processes – consistent product quality

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



GB Standards



II. Solutions for Measurement & Automation Applications

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.



II. Solutions for Measurement & Automation Applications

1. VEGA - Absolutely reliable under changing conditions.



HUYNH BANG

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

II. Solutions for Measurement & Automation Applications

1. VEGA references in Vietnam



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II. Solutions for Measurement & Automation Applications



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1. VEGA references in Vietnam



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1. VEGA references in Vietnam

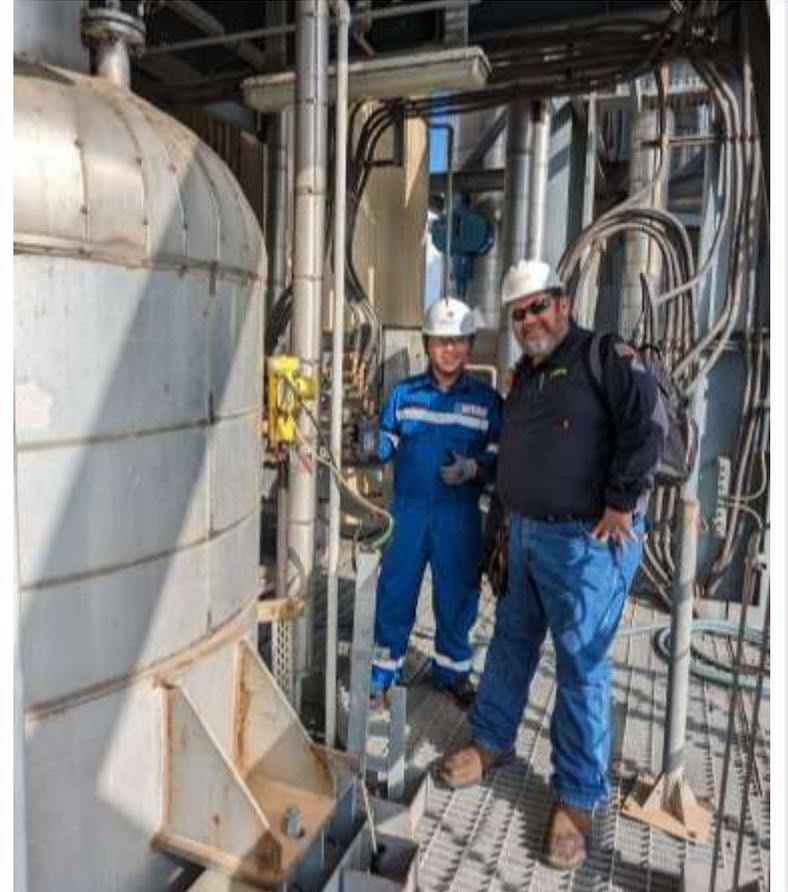


II. Solutions for Measurement & Automation Applications

1. VEGA references in Vietnam



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II. Solutions for Measurement & Automation Applications

2. JUMO Headquarters in Fulda, Germany



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II. Solutions for Measurement & Automation Applications

2. JUMO Sensor Solutions - Precision in Measurement



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Temperature



Liquid analysis



Pressure



Level



Flow



Humidity



II. Solutions for Measurement & Automation Applications

2. JUMO Automation Solutions



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Control



Recording



Automation



Monitoring



II. Solutions for Measurement & Automation Applications

2. JUMO references



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II. Solutions for Measurement & Automation Applications

2. JUMO references



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II. Solutions for Measurement & Automation Applications

2. JUMO references



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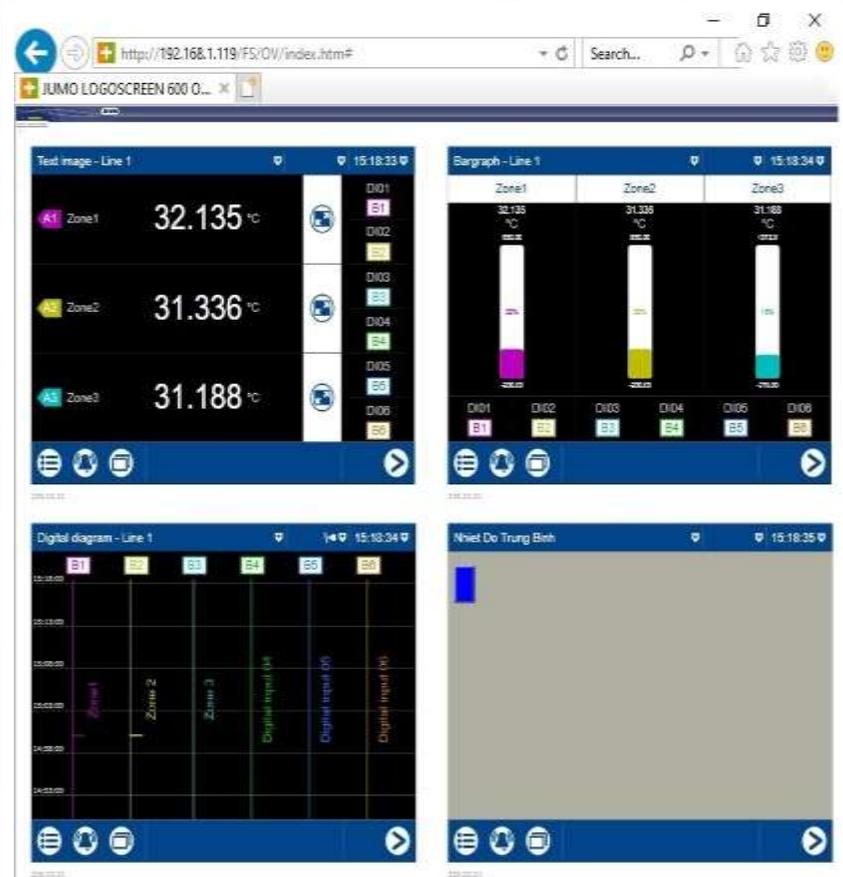


II. Solutions for Measurement & Automation Applications

2. JUMO references



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II. Solutions for Measurement & Automation Applications

2. JUMO references



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II. Solutions for Measurement & Automation Applications

3. Optris: Non-contact infrared Temperature Measurement



HUYNH BANG

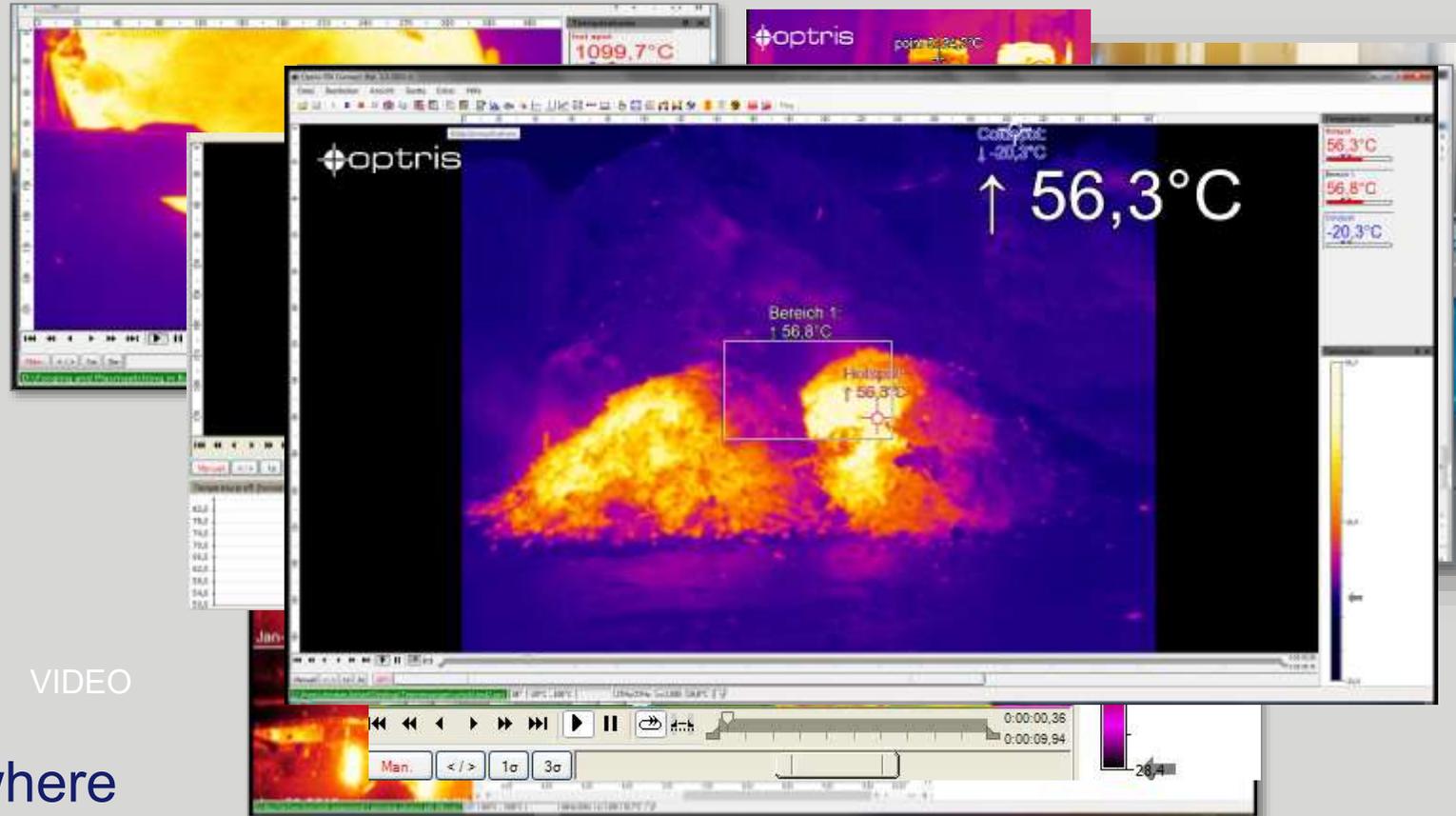


Fields of application

WHEN TEMPERATURE MATTERS

- Metal
- Plastic
- Glass

- Electronics
- Food
- Pharmacy
- Safety
- ...
- Almost everywhere



VIDEO

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.



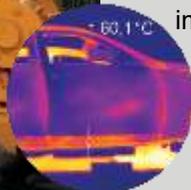
Glass industry

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



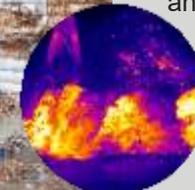
Automotive industry

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



Safety

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.



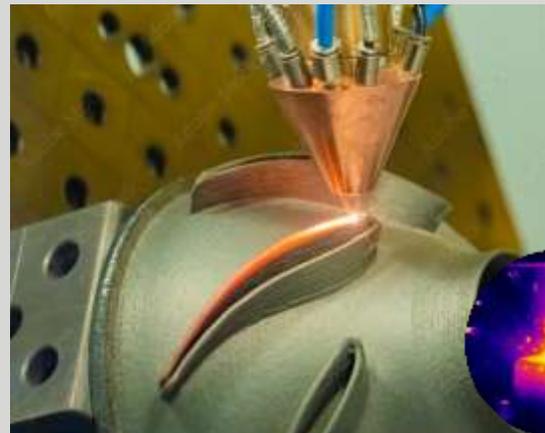
Plastics industry

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



Medical/ biological science

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.

■ Infrared cameras



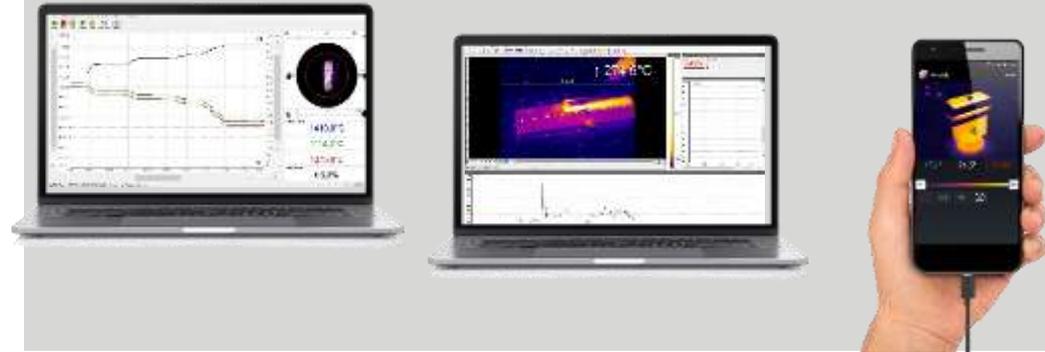
■ Infrared thermometers



■ Accessories



■ Software/ Apps

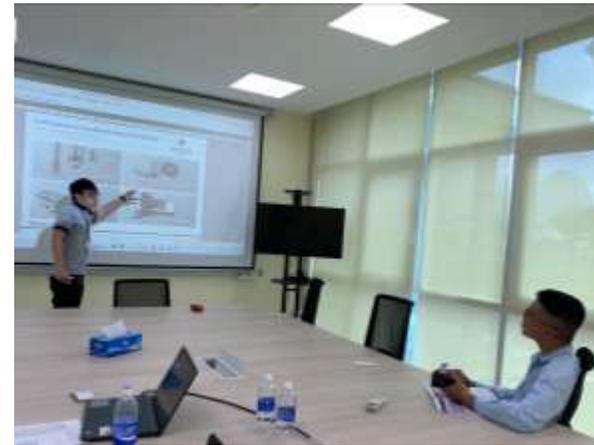


II. Solutions for Measurement & Automation Applications

3. Optris: Non-contact infrared Temperature Measurement



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II. Solutions for Measurement & Automation Applications

3. Optris: Non-contact infrared Temperature Measurement



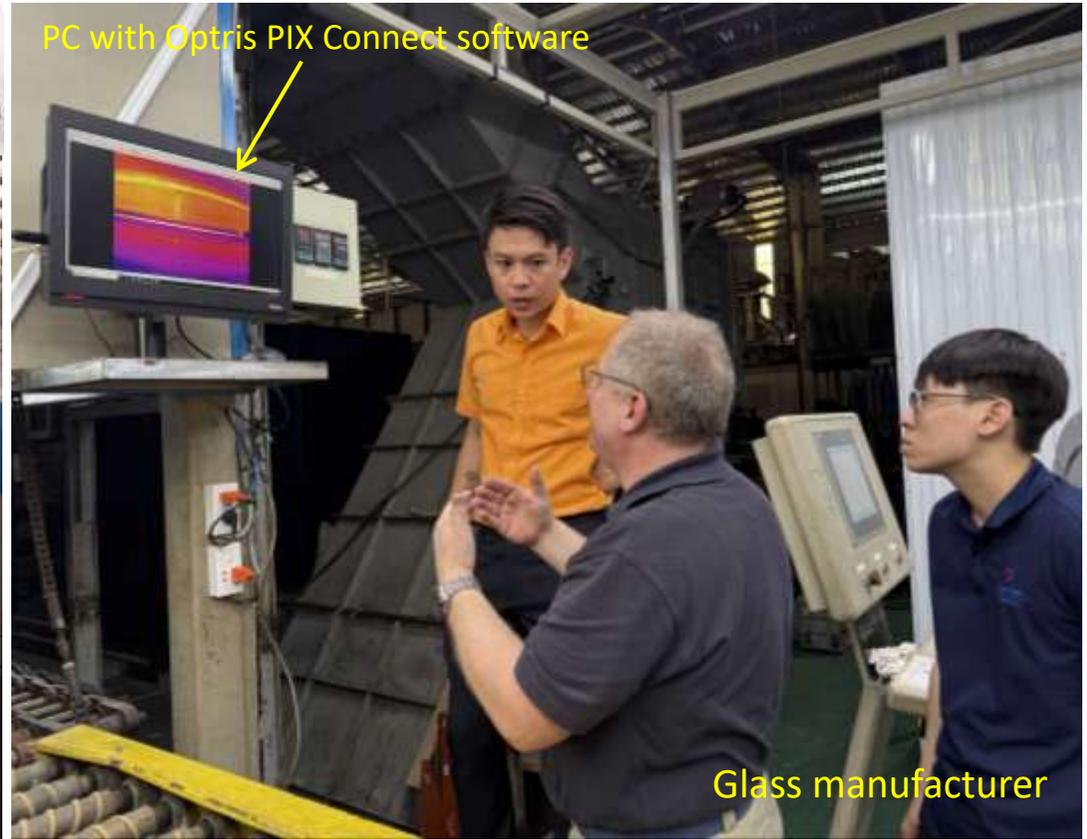
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Checking installation from Optris specialist



PI 450i



PC with Optris PIX Connect software

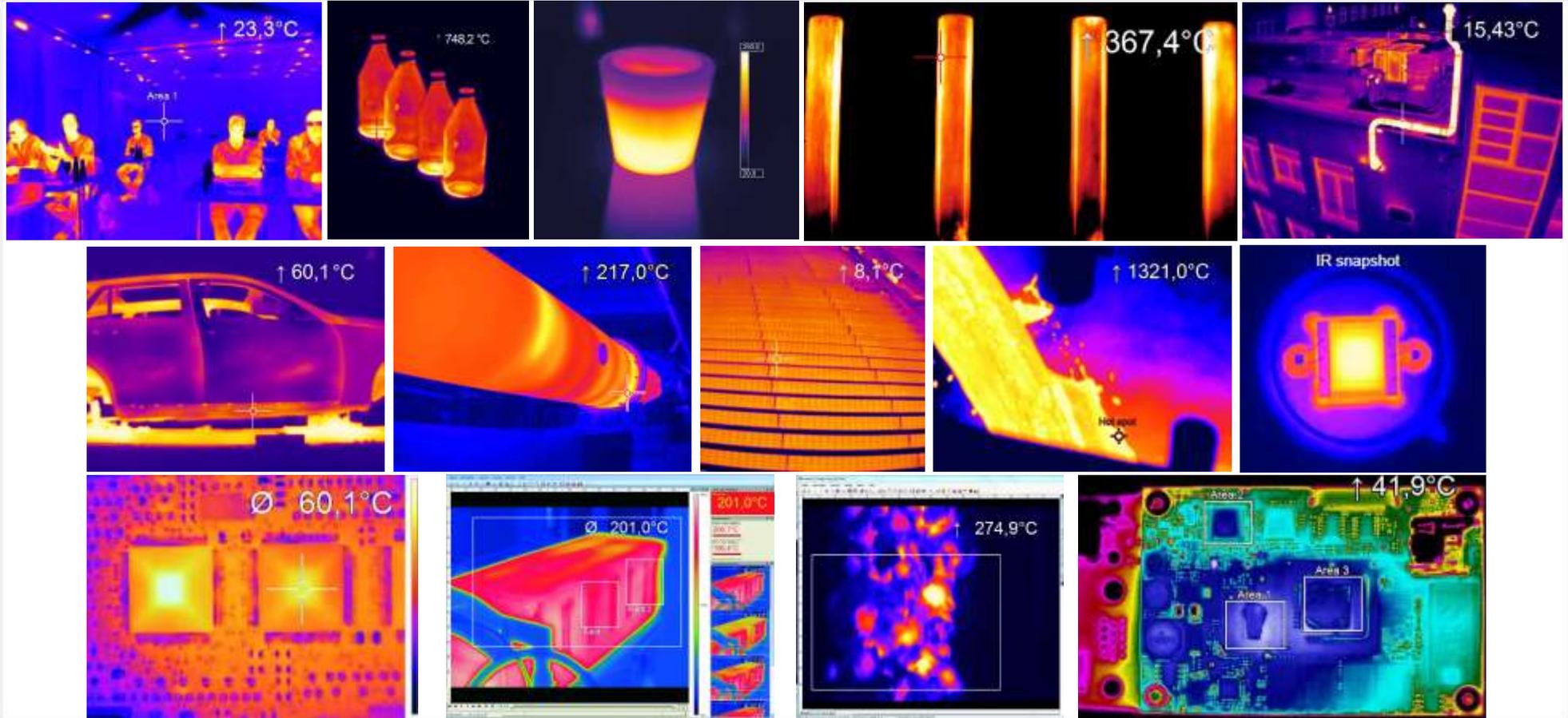
Glass manufacturer

II. Solutions for Measurement & Automation Applications



HUYNH BANG

3. Optris thermal images



II. Solutions for Measurement & Automation Applications

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



HUYNH BANG

COMPANY



**made
in
Germany**

KEM

II. Solutions for Measurement & Automation Applications



HUYNH BANG
COMPANY

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



TRICOR Coriolis Mass Flow Meters | TCM Series

The TCM CLASSIC Series of Coriolis Mass Flow Meters meets general industrial requirements with out-of-the-box ease of use



Gear Flow Meters | ZHM

For lubricating and non-lubricating liquids



Turbine Flow Meters | HM

Measure continuous and discontinuous flow rates



Helical Flow Meters | SRZ

For high-viscosity and abrasive media



made in Germany

TRICOR Coriolis Evaluation Electronics



Pickups and amplifiers



Evaluation Electronics



II. Solutions for Measurement & Automation Applications

4. KEM references



HUYNH BANG



made in Germany



II. Solutions for Measurement & Automation Applications



HUYNH BANG

4. KEM references



II. Solutions for Measurement & Automation Applications

4. KEM references



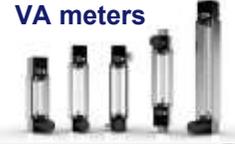
HUYNH BANG



II. Solutions for Measurement & Automation Applications

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



Vögtlin Product Family's			Representative Applications		COMPANY																																																			
Smart MFM/MFC 	Compact MFM 	Pin AA 	Life Science Bio industry Vial manufacturing		 <table border="1"> <thead> <tr> <th colspan="4">Gas type</th> </tr> </thead> <tbody> <tr> <td>Air</td> <td>Air</td> <td>D₂</td> <td>Deuterium</td> </tr> <tr> <td>N₂</td> <td>Nitrogen</td> <td>C₂H₆</td> <td>Ethane</td> </tr> <tr> <td>Ar</td> <td>Argon</td> <td>C₂H₄</td> <td>Ethene, Ethylene</td> </tr> <tr> <td>He</td> <td>Helium</td> <td>C₂F₆</td> <td>Hexafluoromethane, Freon 116</td> </tr> <tr> <td>CO₂</td> <td>Carbon dioxide</td> <td>CHClF₂</td> <td>Chlorodifluoromethane, Freon-22</td> </tr> <tr> <td>CO</td> <td>Carbon monoxide</td> <td>Kr</td> <td>Krypton</td> </tr> <tr> <td>CH₄</td> <td>Methane</td> <td>N₂O</td> <td>Nitrous oxide</td> </tr> <tr> <td>C₃H₈</td> <td>Propane</td> <td>Ne</td> <td>Neon</td> </tr> <tr> <td>H₂</td> <td>Hydrogen</td> <td>C₃H₆</td> <td>Propene, propylene</td> </tr> <tr> <td>C₄H₆</td> <td>1,3-Butadiene</td> <td>SF₆</td> <td>Sulfur hexafluoride</td> </tr> <tr> <td>C₄H₁₀</td> <td>Butane</td> <td>CF₄</td> <td>Tetrafluoromethane, Freon-14</td> </tr> </tbody> </table>				Gas type				Air	Air	D ₂	Deuterium	N ₂	Nitrogen	C ₂ H ₆	Ethane	Ar	Argon	C ₂ H ₄	Ethene, Ethylene	He	Helium	C ₂ F ₆	Hexafluoromethane, Freon 116	CO ₂	Carbon dioxide	CHClF ₂	Chlorodifluoromethane, Freon-22	CO	Carbon monoxide	Kr	Krypton	CH ₄	Methane	N ₂ O	Nitrous oxide	C ₃ H ₈	Propane	Ne	Neon	H ₂	Hydrogen	C ₃ H ₆	Propene, propylene	C ₄ H ₆	1,3-Butadiene	SF ₆	Sulfur hexafluoride	C ₄ H ₁₀	Butane	CF ₄	Tetrafluoromethane, Freon-14
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Industrial MFM/MFC Ex / IP67 	Hi Flow – DP d-flux 		Industrial/Production Automotive welding/soldering Light bulb manufacturing																																																					
			Surface treatment Vapour deposition parts Flat glass treatment																																																					
			R&D/Analytical Analytical equipment Car emission testing																																																					
			Testing Leak test Flow verification																																																					
			Material Heat treatment ovens Semiconductor grey market																																																					
			Food/Beverage Ice cream manufacturing Beer manufacturing																																																					
			Energy/Power Consumption Fuel cell development																																																					
			Semi-conductor Wafer manufacturing and handling, Lithography, Testing																																																					
			General Fiberglass manufacturing Water Purification																																																					
Smarttrak MFM/MFC 	OEM Solutions 																																																							
VA meters 	Precision Needle Valves 																																																							



II. Solutions for Measurement & Automation Applications

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



HUYNH BANG



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



GET VÖGTLIN CONNECT ON
Google Play



II. Solutions for Measurement & Automation Applications

5. Vögtlin Instruments GmbH - Applications



HUYNH BANG

Permeability measurements of concrete



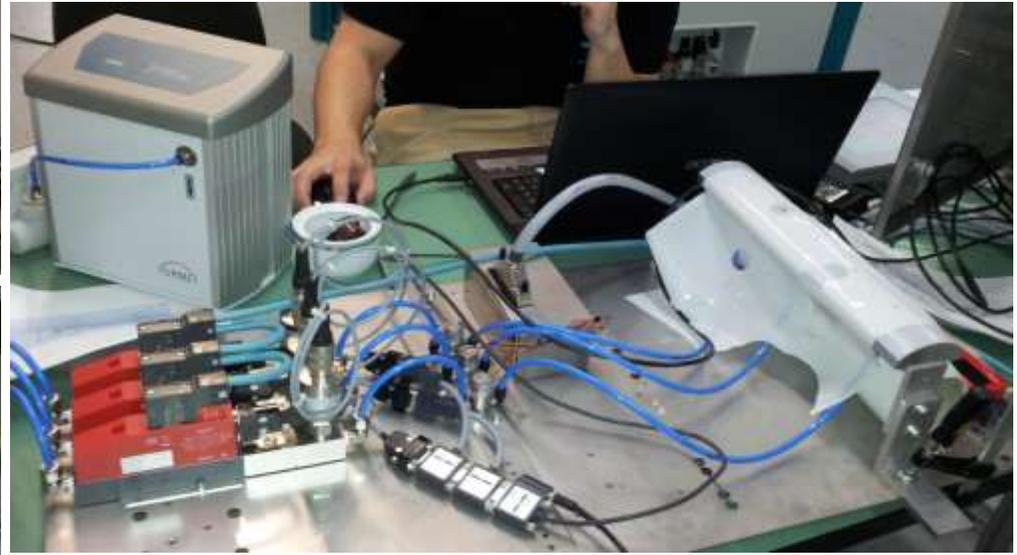
Permeability test of membranes



Test on valves of coffee packaging



Calibration device for reviewing test leaks



II. Solutions for Measurement & Automation Applications

5. Vögtlin Instruments GmbH - Applications



HUYNH BANG

Inline gas mixer



Mixing block GZB / GRB

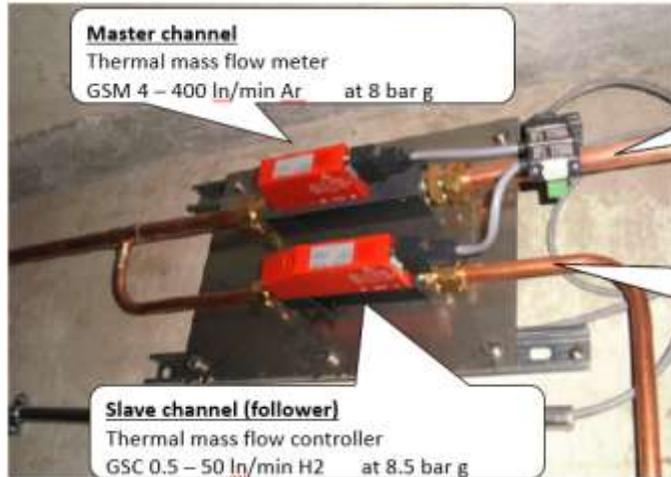


Aluminium billet caster



Master channel

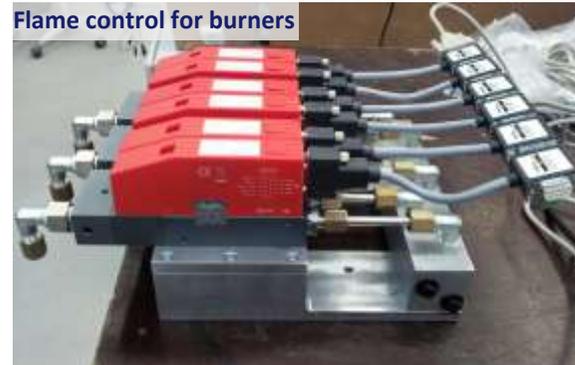
Thermal mass flow meter
GSM 4 – 400 l/min Ar at 8 bar g



Slave channel (follower)

Thermal mass flow controller
GSC 0.5 – 50 l/min H2 at 8.5 bar g

Flame control for burners



Aluminium billet caster



II. Solutions for Measurement & Automation Applications

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



HUYNH BANG



- 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



- Variable Area Flowmeters
- No power supply needed
- For all installation angles
- 0.005 l/min – 333 l/min flow range
- Suitable until 160 °C and 350 bar
- Various output signal options

Youtube video [here](#)





- Digital signal output via IO-Link
- 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](#)





- 3D printing with stainless steel
- Weight reduction
- Maximum design freedom

Youtube video [here](#)



Ihre Vorteile auf einen Blick

- Designfreiheit
- Gewichtreduzierung
- Materialersparnis
- Maßgeschneidert ab Losgröße 1



VERTELLERSYSTEM V01



advantages of using Meister flowmeters



INDUSTRIAL FLOW

Your Partner for Industrial Flow Measurement



II. Solutions for Measurement & Automation Applications

6. Meister Variable Area Flow Meters



HUYNH BANG

COMPANY



II. Solutions for Measurement & Automation Applications

6. Meister Variable Area Flow Meters



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COMPANY



II. Solutions for Measurement & Automation Applications

6. Meister – AMFE (Automatic Miniature Fire Extinguisher)



HUYNH BANG

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

AMFE
AUTOMATIC MINIATURE FIRE EXTINGUISHER

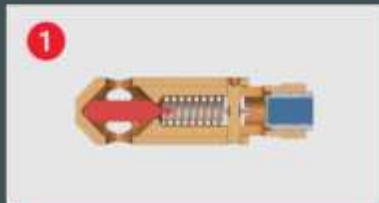
In control cabinets and systems, a fire can easily cause major damage. The AMFE extinguishes reliably and precise

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



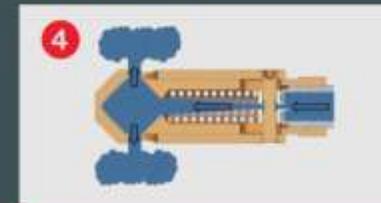
AMFE ready to be used



Glass ampoule bursts



Cylinder is opened



Extinguishing medium is released

II. Solutions for Measurement & Automation Applications

6. Meister – **AMFE** (Automatic Miniature Fire Extinguisher)



AMFE: PRODUCT VARIATIONS

AMFE:

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



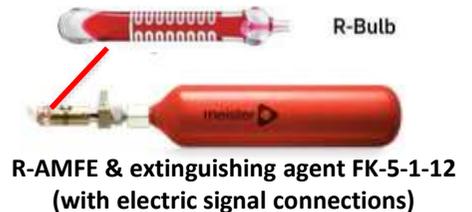
S-AMFE:

- 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)



II. Solutions for Measurement & Automation Applications



HUYNH BANG

6. Meister – AMFE (Automatic Minature Fire Extinguisher)

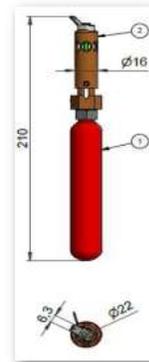
AMFE: PRODUCT SIZES

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

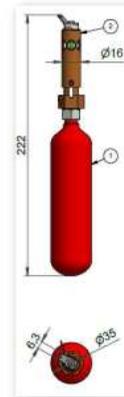
Electrical Cabinet Description	Dimensions (HxWxD) in mm			Volume in m ³	Recommended AMFE Size
Factory # 1	800	600	250	0.12	1
Factory # 2	1500	800	300	0.36	3
Factory # 3	2500	1000	600	1.5	5



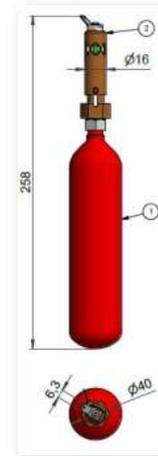
Try to sizing here



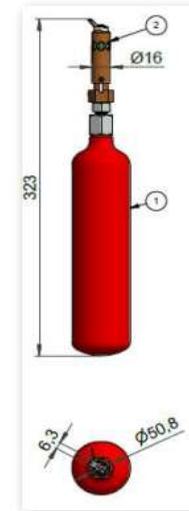
Size 0



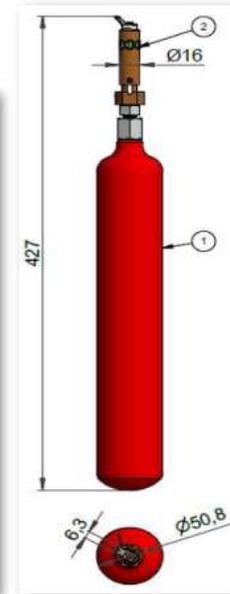
Size 1



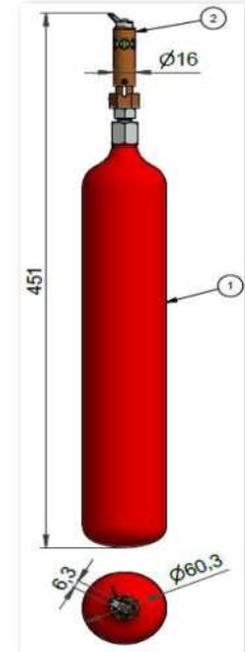
Size 2



Size 3



Size 4



Size 5

II. Solutions for Measurement & Automation Applications

6. Meister – **AMFE** (Automatic Minature Fire Extinguisher)



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COMPANY

AMFE: INSTALLATION EXAMPLES

AMFE



S-AMFE



R-AMFE



II. Solutions for Measurement & Automation Applications

6. Meister – **AMFE** (Automatic Miniature Fire Extinguisher)



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AMFE: CUSTOMER ADVANTAGES

Automatic fire detection and extinction

Fire extinguishing network with Multialert®

No harm to humans & components (FK-5-1-12)

Low maintenance, 10 years product life cycle

Customizable activation temperatures available

Heat removal from the flame (no flash-over effect)

Faster fire extinction than with CO₂



Scalable

Retrofitting option

Cost effective solution

Easy to use and install

Easy integration into existing fire alarm

No power supply

All safety certifications available

II. Solutions for Measurement & Automation Applications

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



HUYNH BANG



SCHMIDT®- Flow sensors measure:



Flow velocity



Mass flow



Flow volume and flow rate (Sm³/h, Nm³/h)



Temperature



II. Solutions for Measurement & Automation Applications

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



HUYNH BANG

COMPANY



For pressured air use

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



For all kinds of 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



II. Solutions for Measurement & Automation Applications

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



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COMPANY



For Cleanrooms in

-  Pharmaceutical Industry
-  Food Industry
-  Semiconductor Industry

For the Application in

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



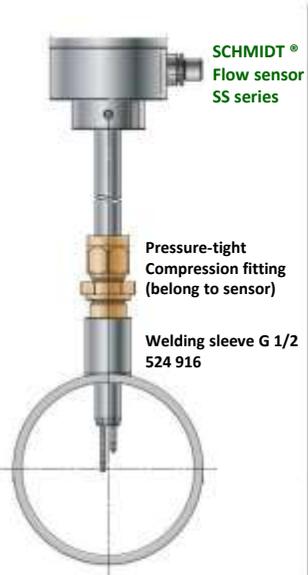
II. Solutions for Measurement & Automation Applications

7. SCHMIDT Technology – Mounting variations



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COMPANY

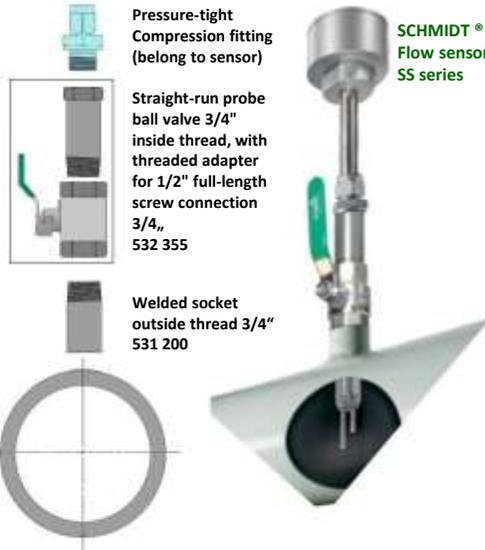


SCHMIDT®
Flow sensor
SS series

Pressure-tight
Compression fitting
(belong to sensor)

Welding sleeve G 1/2
524 916

Variation #1 –
Direct mounting



Pressure-tight
Compression fitting
(belong to sensor)

Straight-run probe
ball valve 3/4"
inside thread, with
threaded adapter
for 1/2" full-length
screw connection
3/4,"
532 355

Welded socket
outside thread 3/4"
531 200

Variation #2 –
Mounting on ball valve



SCHMIDT®
Flow sensor
SS series

Probe ball valve xxx "
Inside thread,
connection to flow
sensor: 1/2" inside
thread incl. plug and
chain
1" – 530 940
1 1/4" – 530 941
1 1/2" – 530 942
2" – 530 943

SCHMIDT®
Flow sensor
SS series

Variation #3 –
Mounting into probe ball valve



Connecting cable, 8 pole, length 5m,
with coupler socket and open cable
524 921



SCHMIDT® LED display MD 10.015:
in wall-mounted housing to show the volume
flow and flow velocity, 85...230V AC and sensor
supply with additional sum function and second
measuring input
527 330

Connecting cable, LED display &
pipe assembly kit



Assembly kit for pipe assembly,
suitable for MD 10.010 / 10.015,
including pipe clamps and collar for
adjustment to the pipe diameter
531 394

II. Solutions for Measurement & Automation Applications

7. SCHMIDT Technology references



HUYNH BANG



II. Solutions for Measurement & Automation Applications

8. Vaisala- Headquarters in Vantaa, Finland



HUYNH BANG





Vaisala Process Refractometer solutions

By industry



Pulp and paper

Food and beverage

Chemicals

Semicon and electronics

Metals and mining

Life science

Oil and gas

Renewable energy

By application



Mixing/blending

Dissolving

Evaporation

Cooking

Chemical recovery

Filtration/separation

Crystallization

Polymerization

Interface detection

Washing

Wet scrubbing

Quality control

By unit of measure



Conc. % by weight

Refractive index nD

Liquid density

Brix

Total solids TS

Total dissolved solids TDS

Plato

Baume

Oechsle

Vaisala Polaris process refractometer



Refined 5th
generation reliability



Vaisala quality



Robust design



Engineer to
order service



Drift-free
measurement



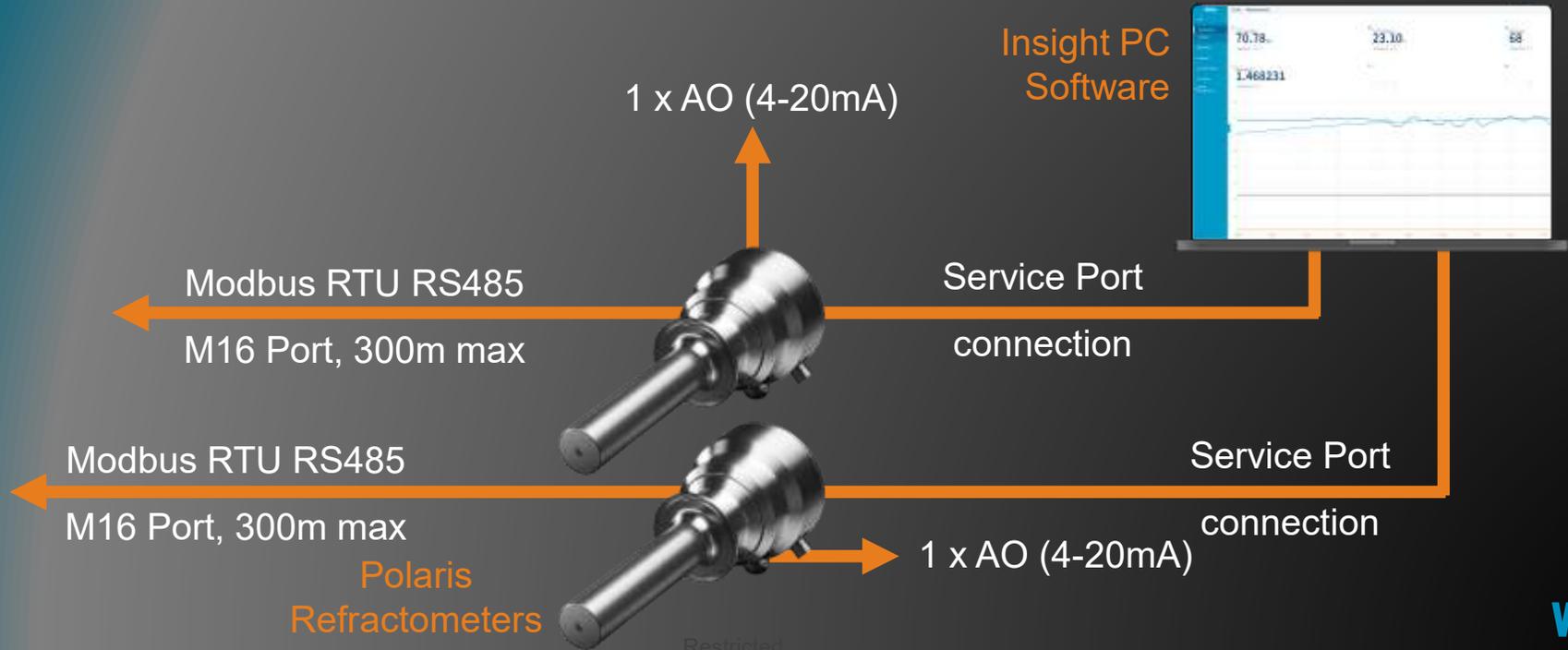
Global and local
customer service
and support



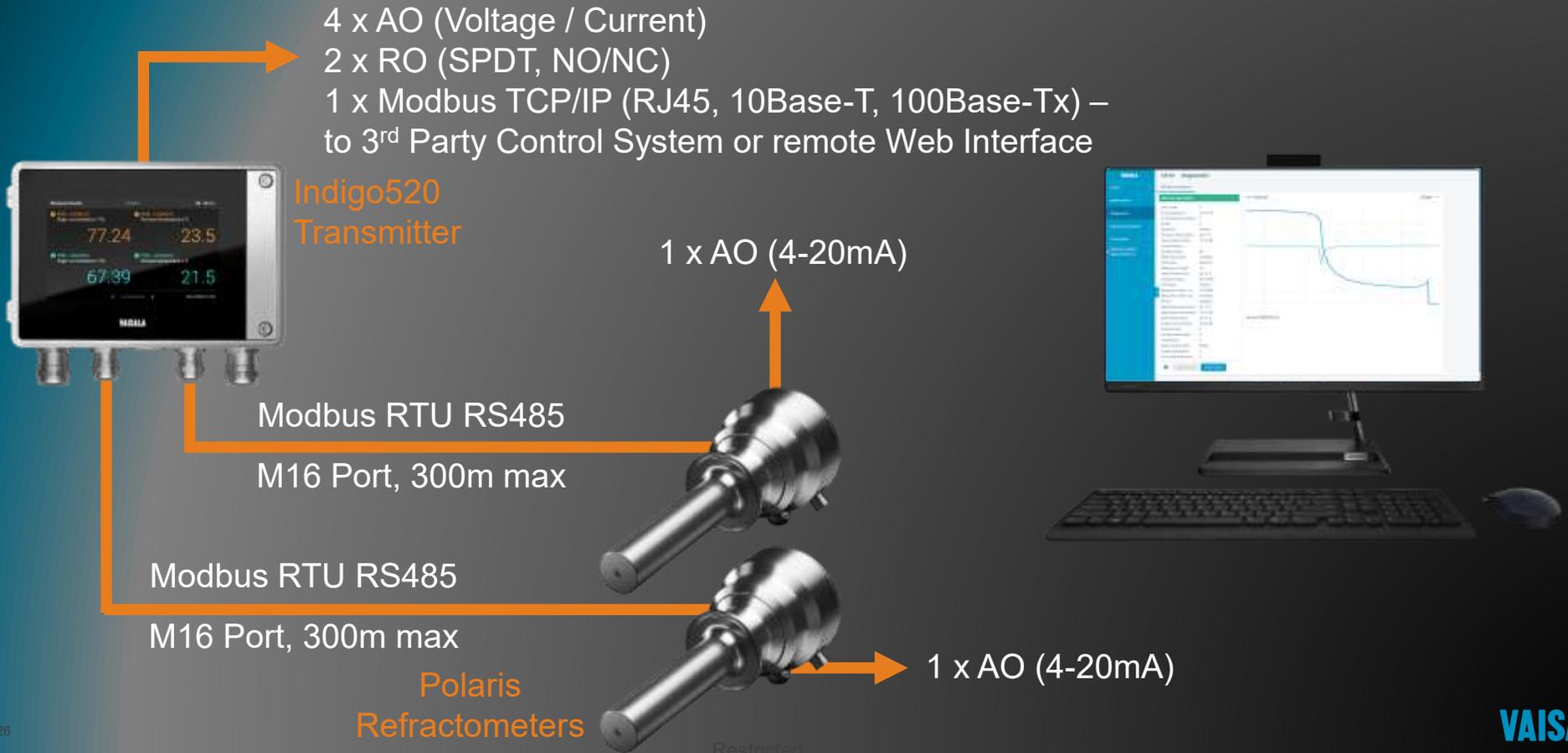
Widest offering and
industry expertise



Vaisala Polaris process refractometer (Schematic)



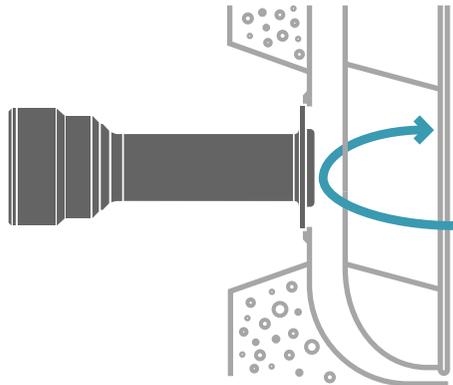
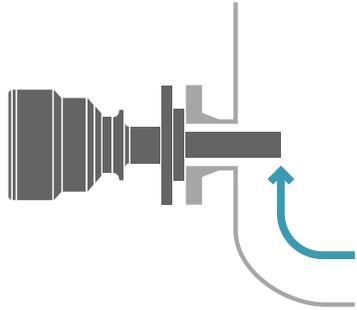
Vaisala Polaris process refractometer (Schematic)



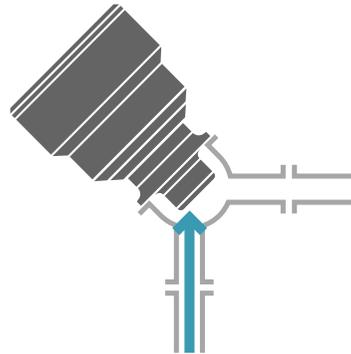
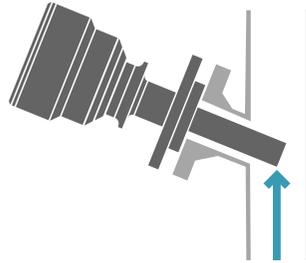
Vaisala Process Refractometer

Installation Flexibility

■ Vessel/Tank

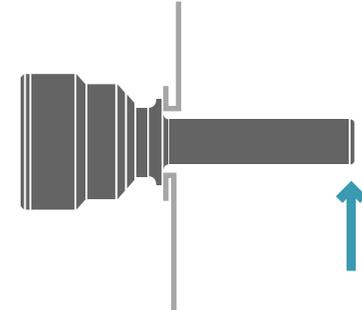
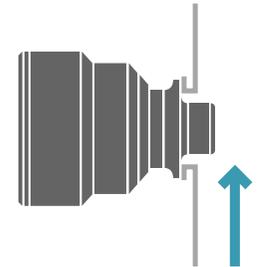


■ Pipeline



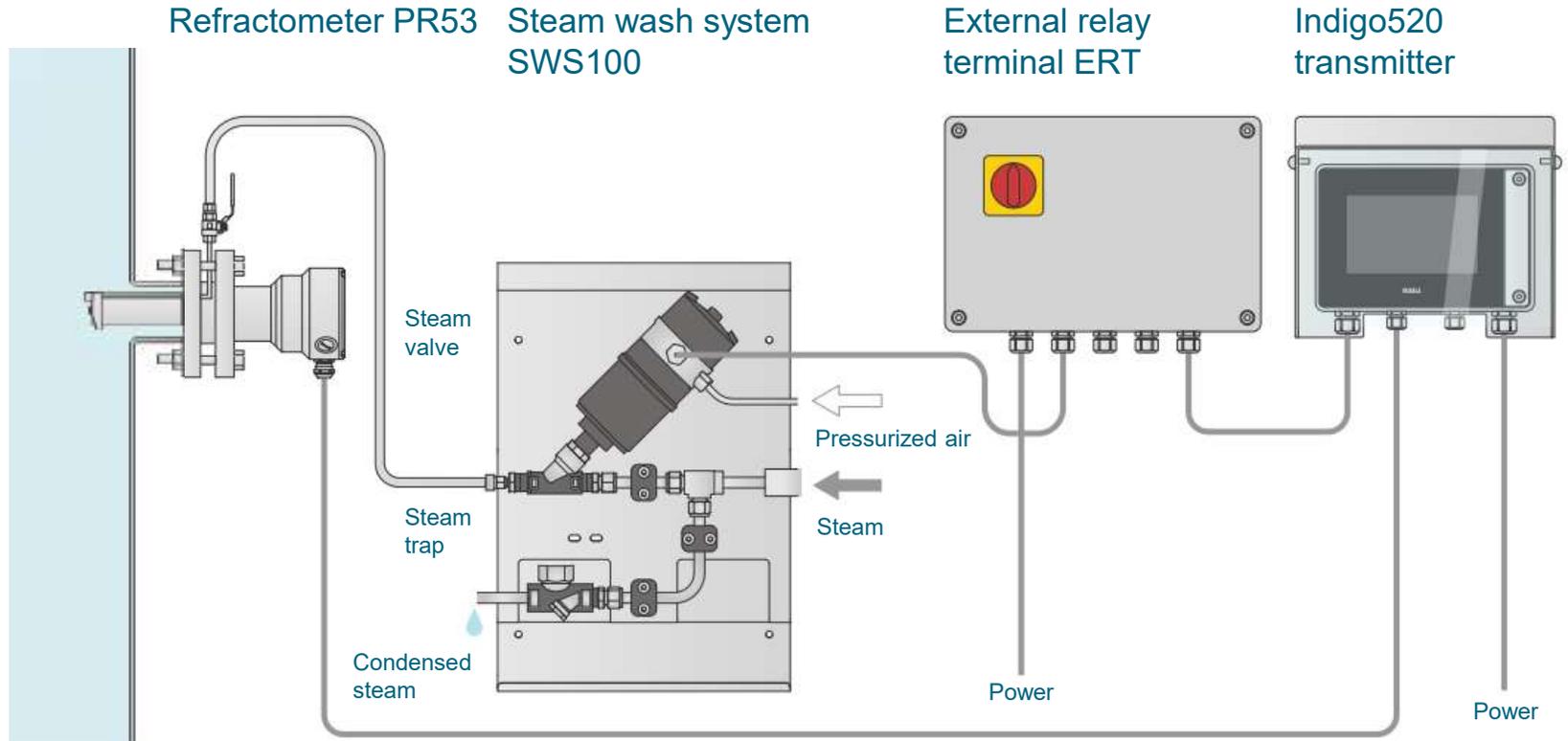
Restricted

■ Varivent

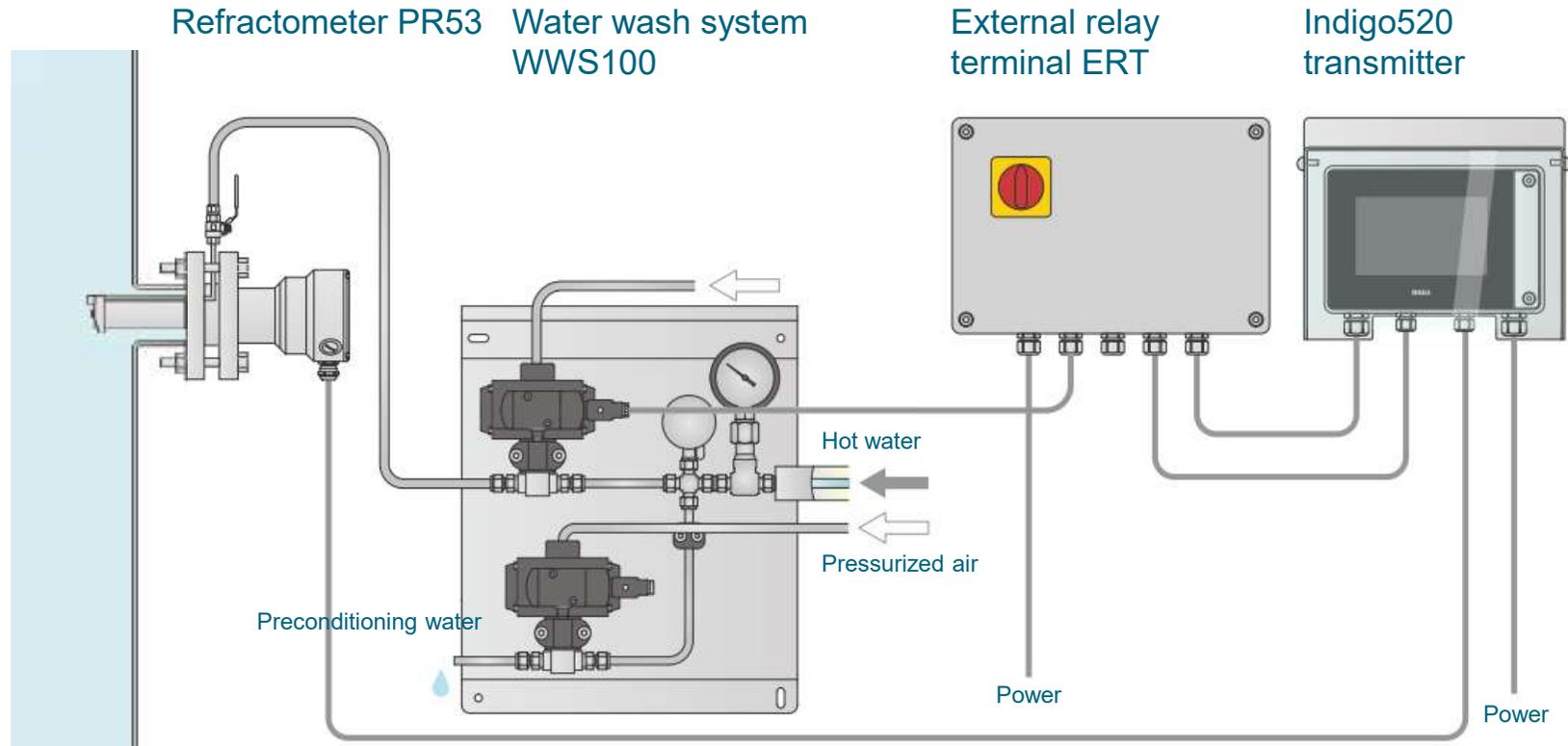


VAISALA

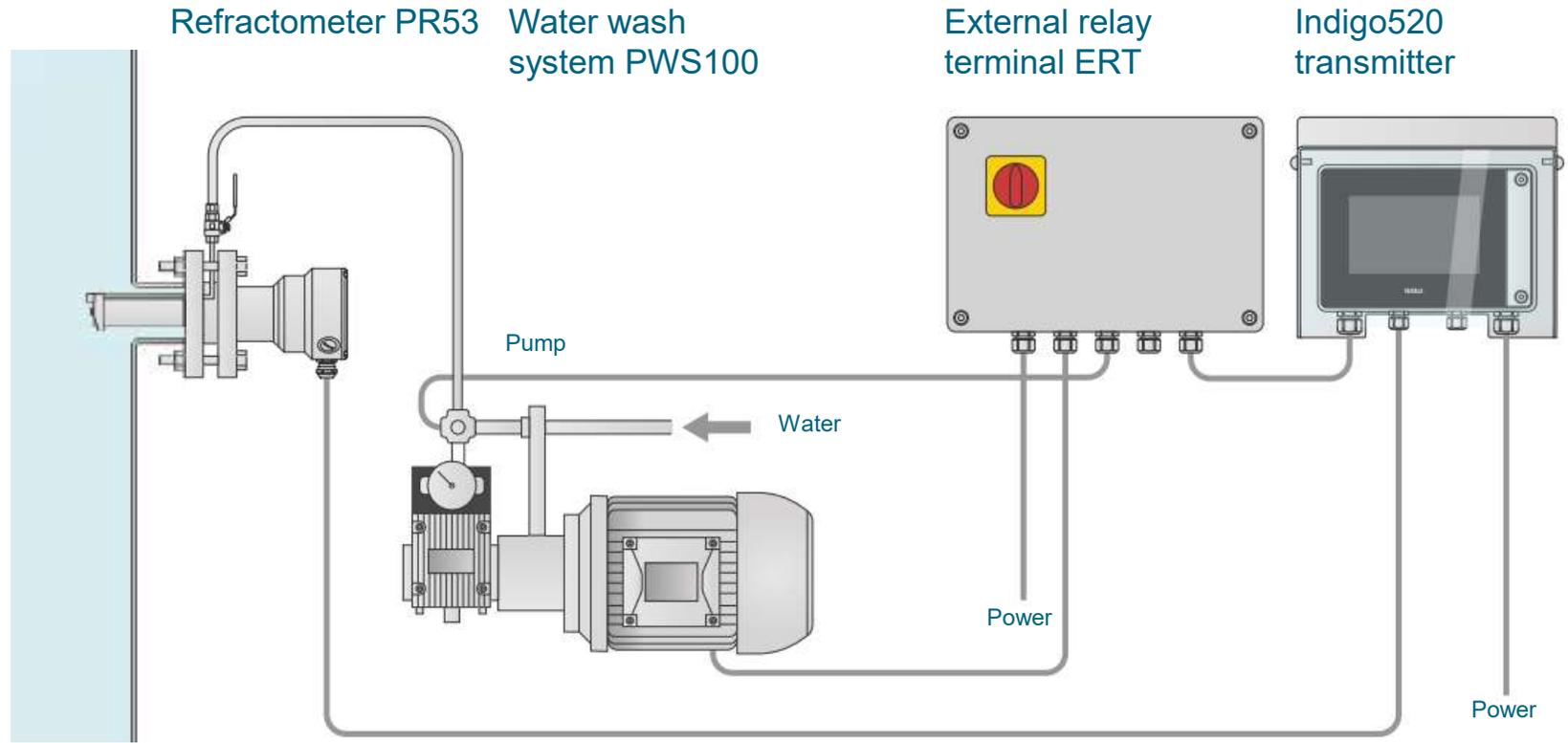
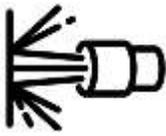
Steam Wash System



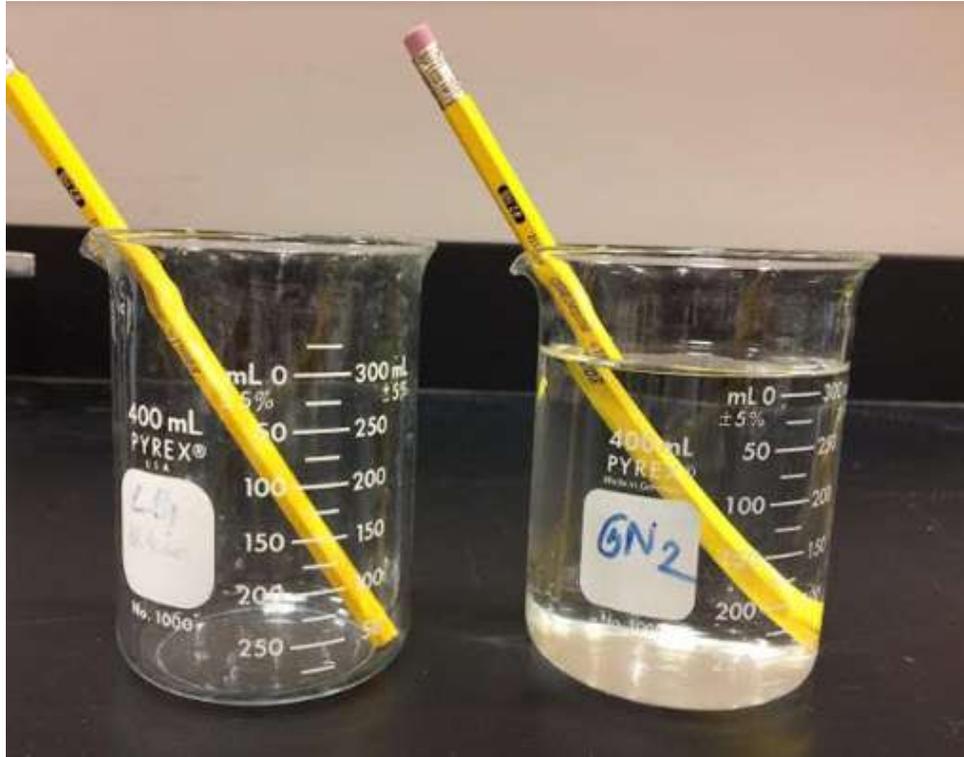
Water Wash System



Pressurized Wash System



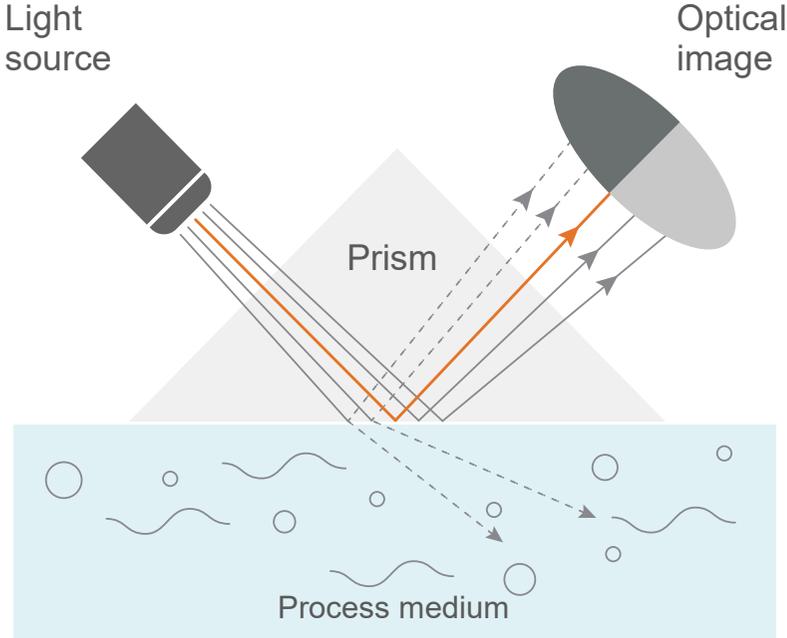
Refractive Index



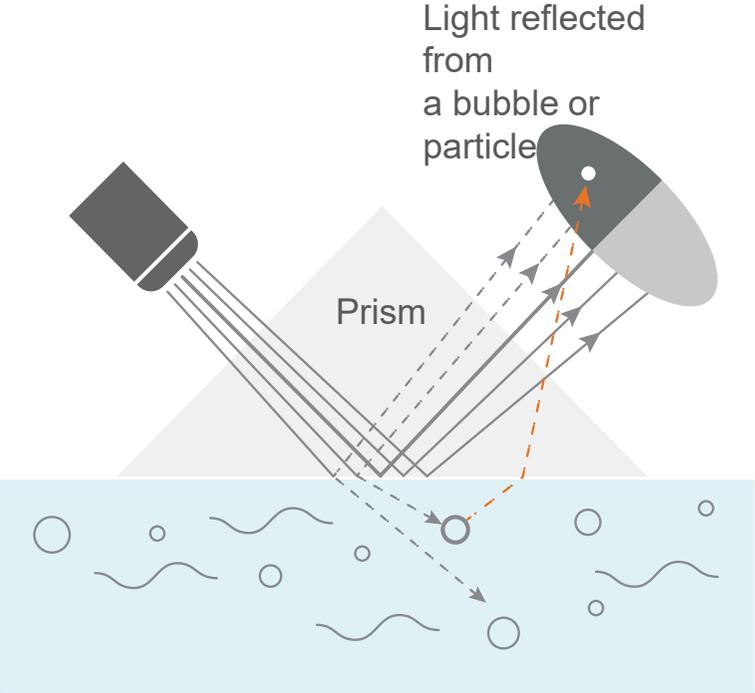
- Physical Property of a substance
- Measurable
- No chemical change
- “Power of Bending the light”
- Concentration of the solution affect Power of Bending or Refractive Index
- Higher Concentration, more bend

Refractometer Animation

Critical angle measurement



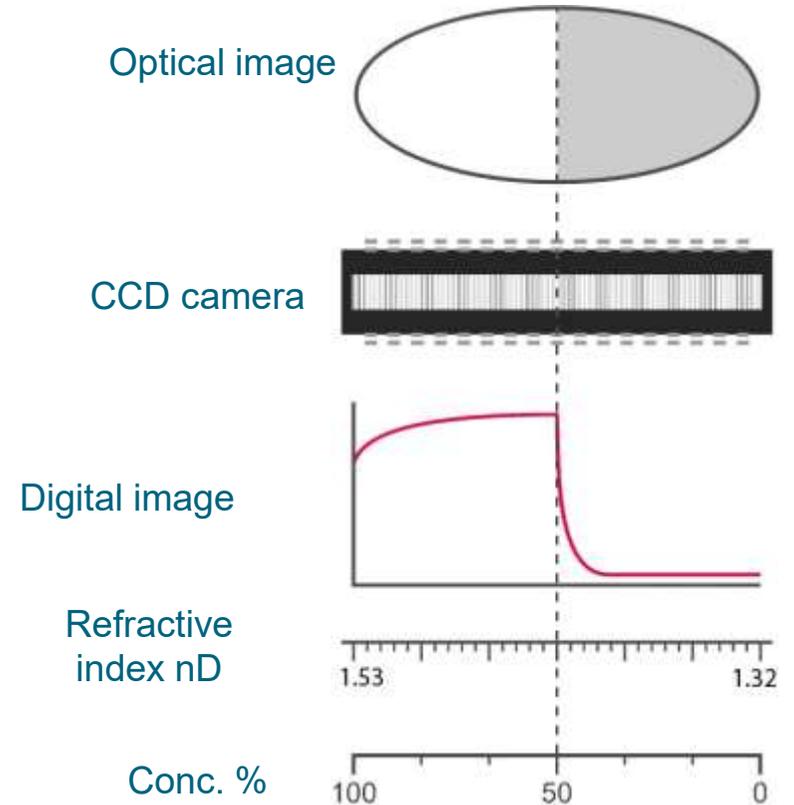
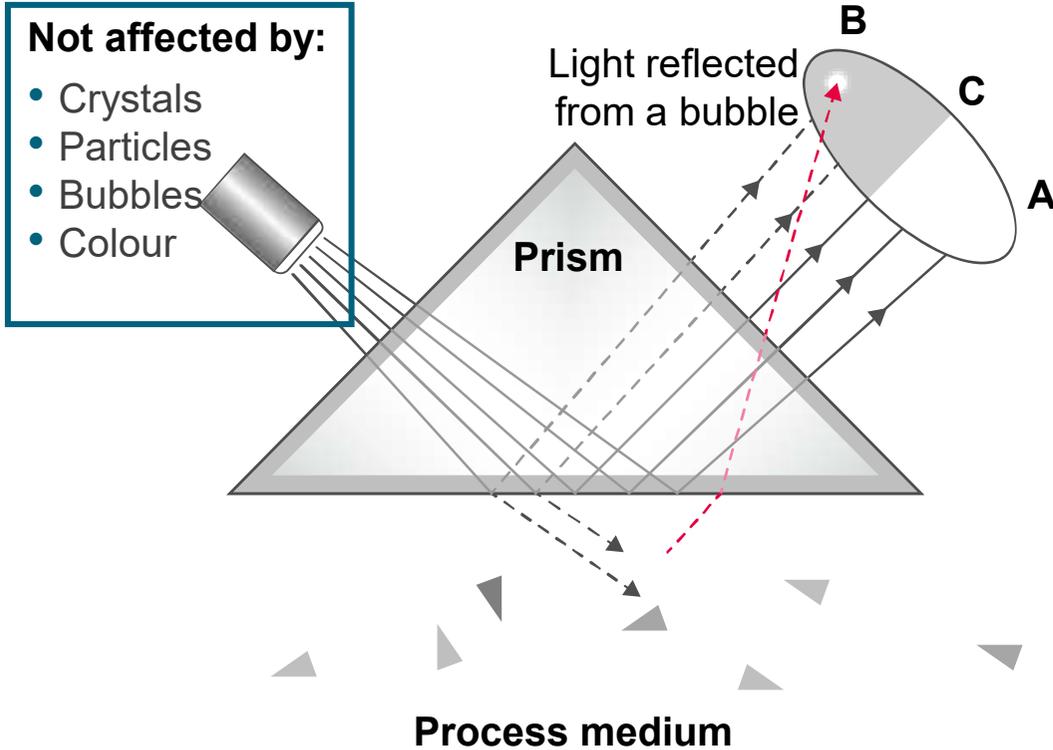
No moving parts
No Drift
No Re-calibration



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

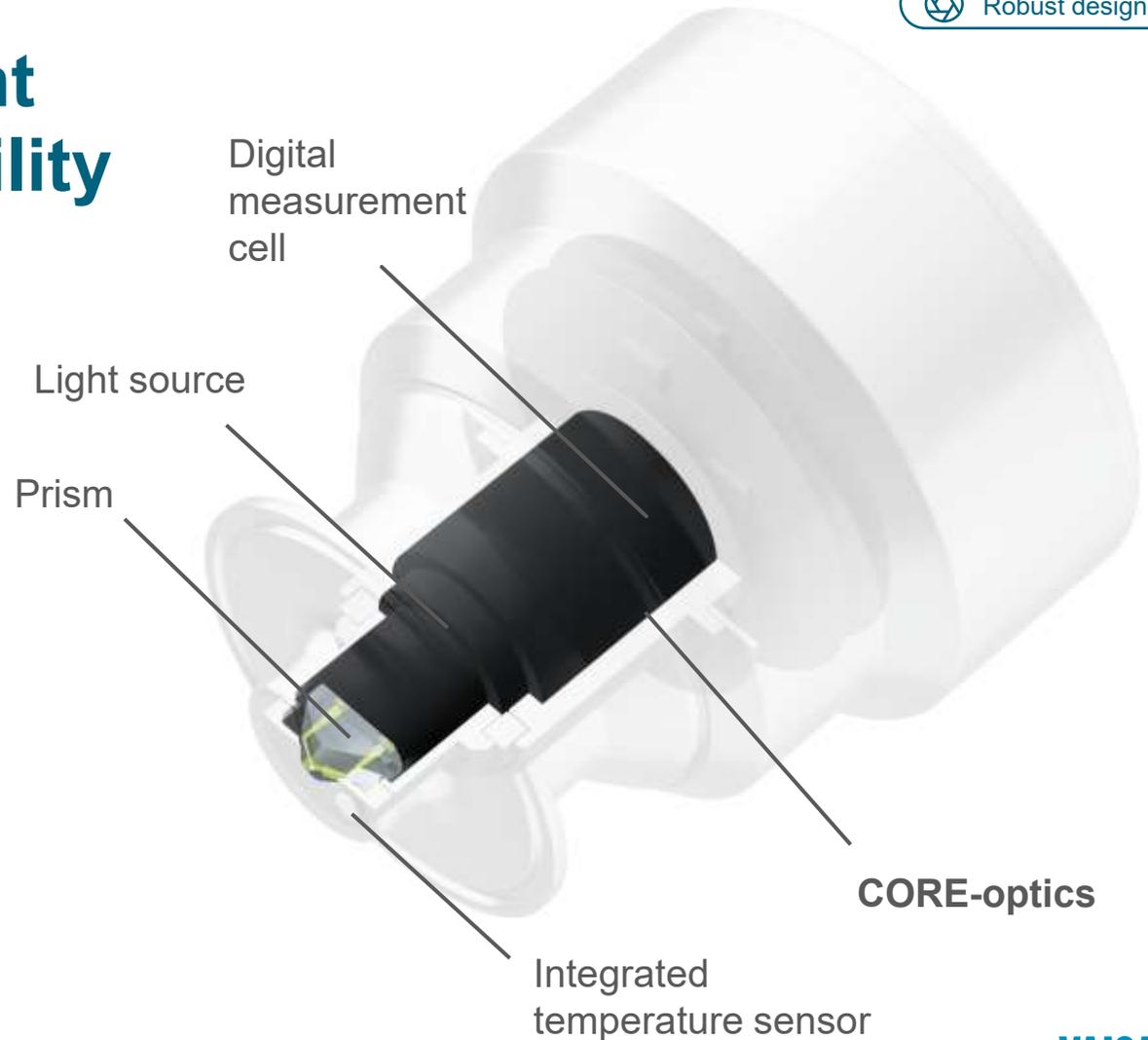


Drift-free measurement with outstanding stability

Built to last and measure in most demanding process conditions

Not Affected by

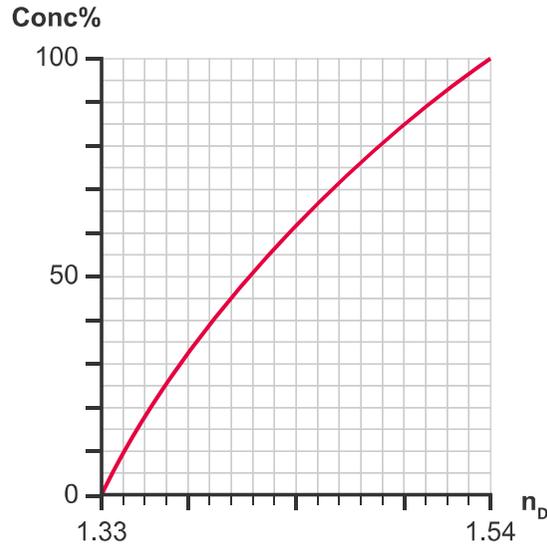
- Vibration
- Temperature Shock
- Pressure Peak



Vaisala Process Refractometer

Exact Calibration

Refractive Index n_D and Concentration Conversion



Matches exactly

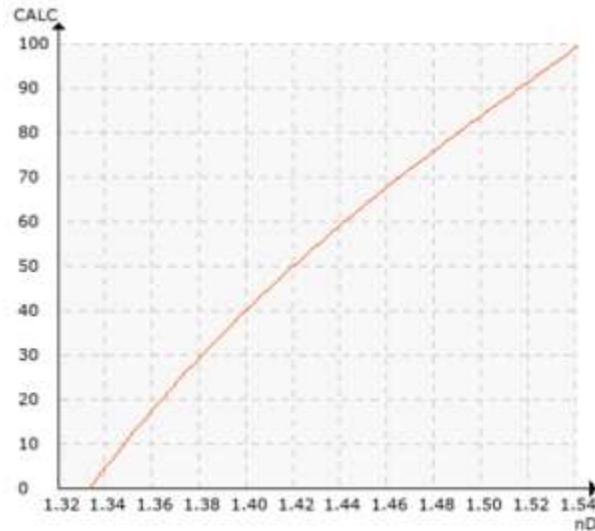


Standard Concentration Tables

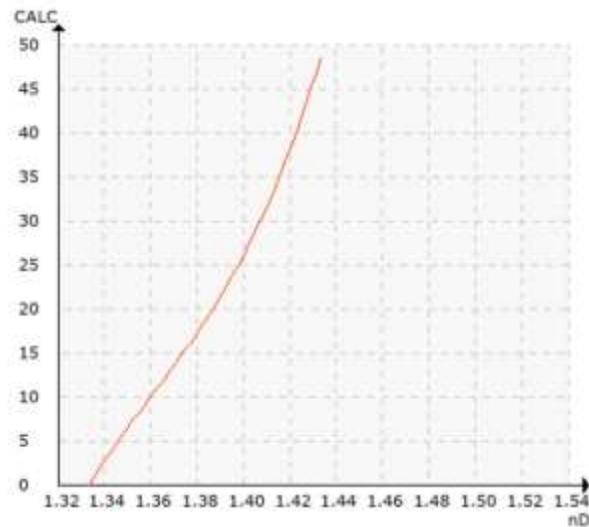
Conc%	n_D
0	1.3300
10	1.3478
20	1.3639
100	1.5400

From Refractive Index to Concentration Value

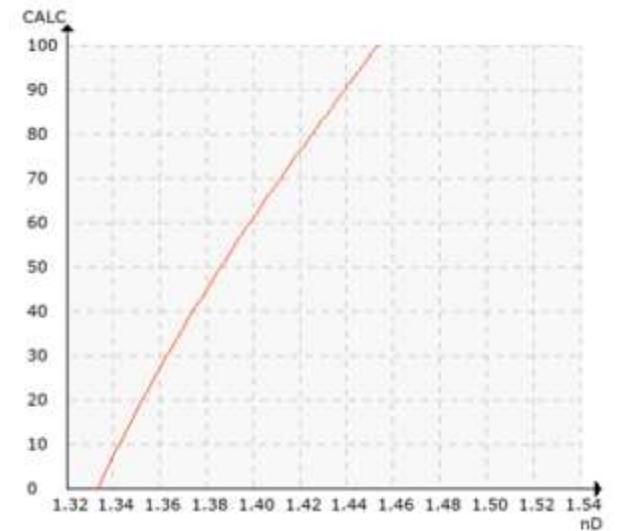
Sugar (°Brix)



Caustic Soda (% bw)



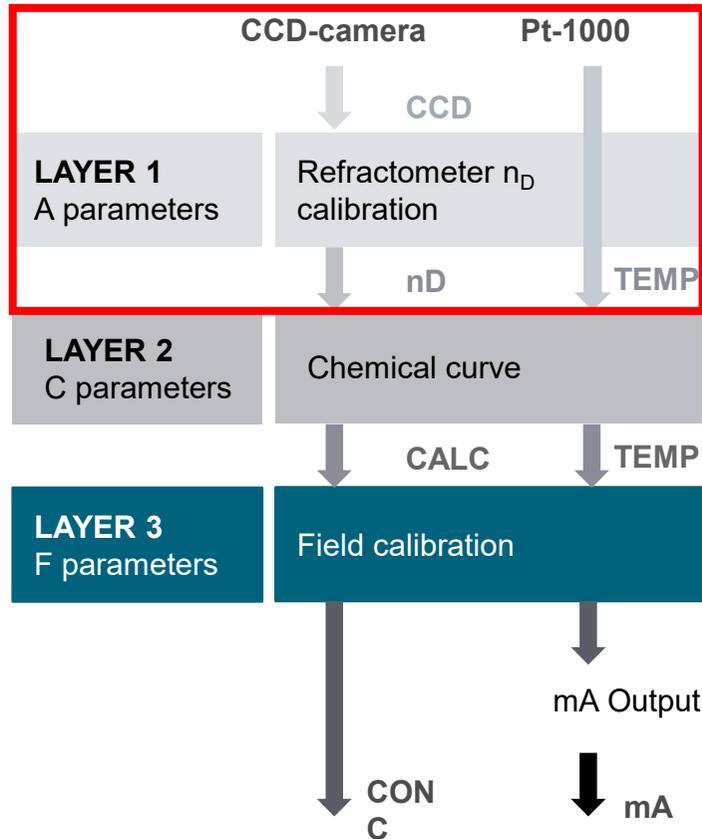
Phosphoric Acid (% bw)



Vaisala Process Refractometer

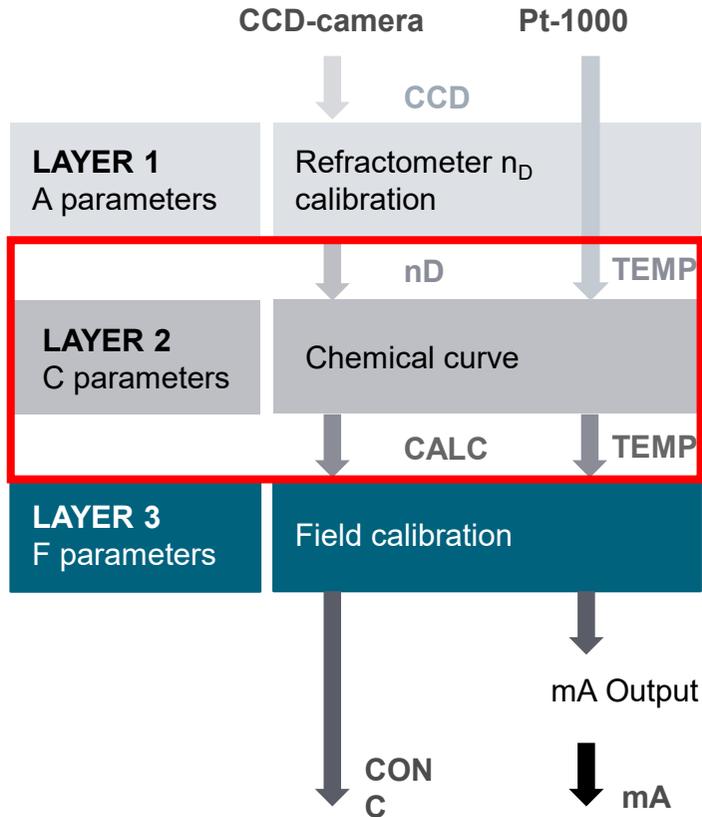
Unique 3-Layer Calibration

(layer 1)

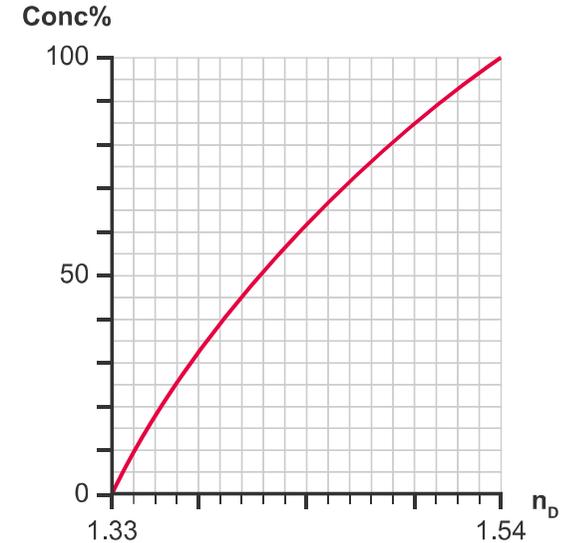


Vaisala Process Refractometer

Unique 3-Layer Calibration (layer 2)

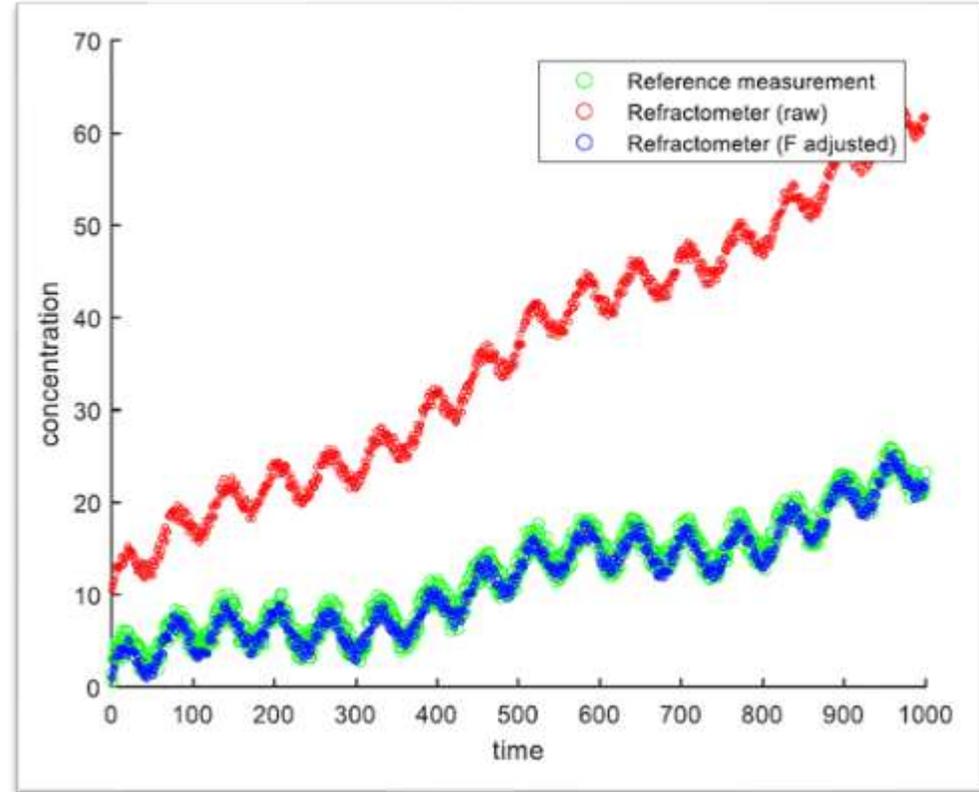
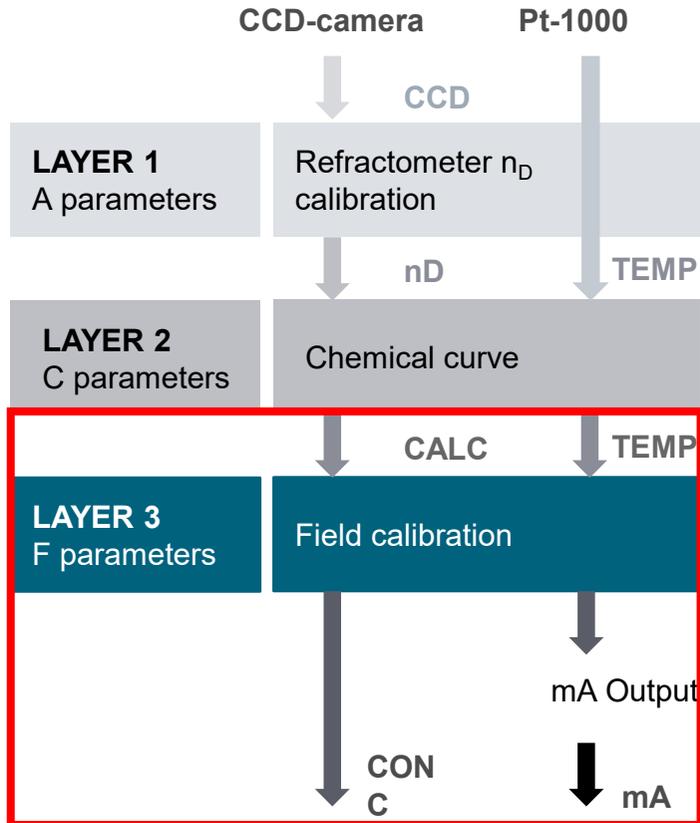


Refractive Index n_D and Concentration Conversion



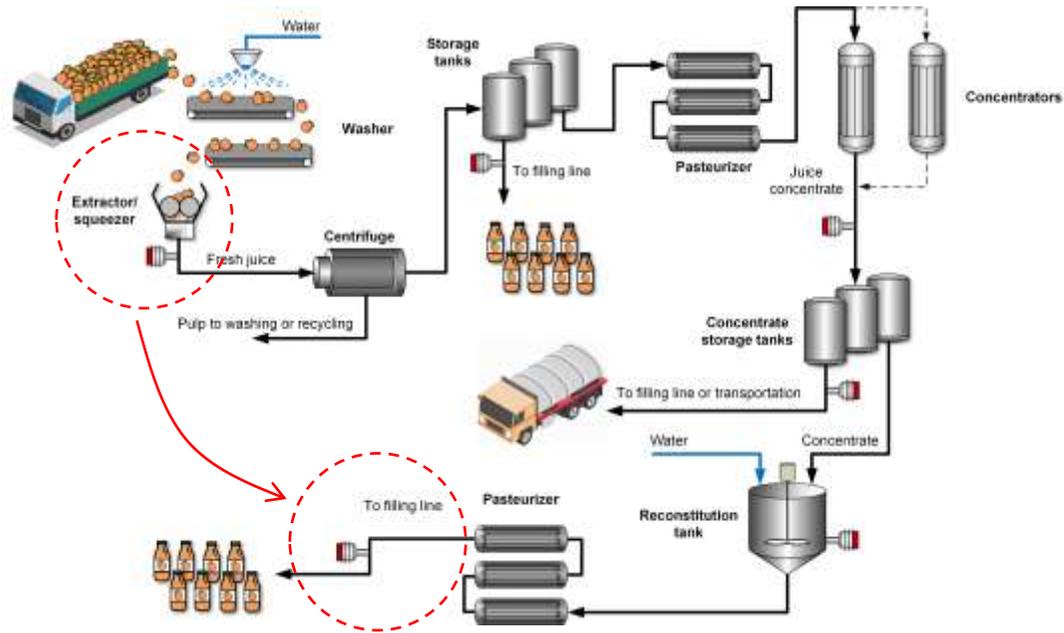
Vaisala Process Refractometer

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

Reproducible 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



II. Solutions for Measurement & Automation Applications

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



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II. Solutions for Measurement & Automation Applications

8. Vaisala sensor verification done by Huynh Bang.



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II. Solutions for Measurement & Automation Applications

9. CANTY Process Technology – „Eyes in the Process“



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J.M. Canty, USA
6100 Donner Road
Buffalo, NY 14094
Phone: (716) 625-4227
Fax: (716) 625 - 4228

Email: sales@jmcanty.com

J.M. Canty, LTD
Ballycoolin Business Park
Blanchardstown
Dublin 15, Ireland
Phone: +353 (01) 882-9621
Fax: +353 (01) 882-9622

Email: sales.ie@jmcanty.com

II. Solutions for Measurement & Automation Applications

9. CANTY High Temperature Camera Systems



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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

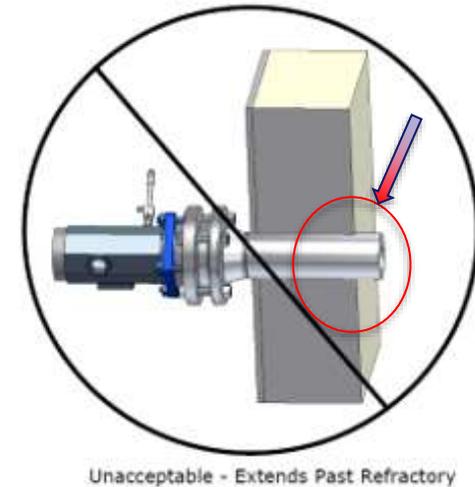
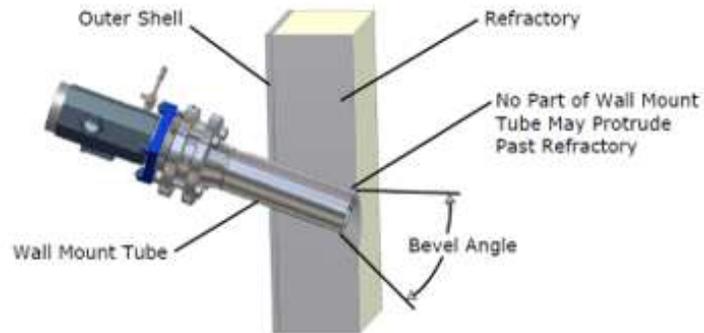
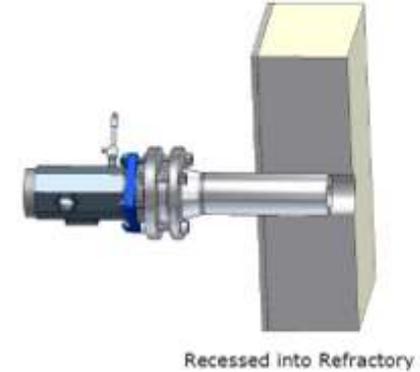
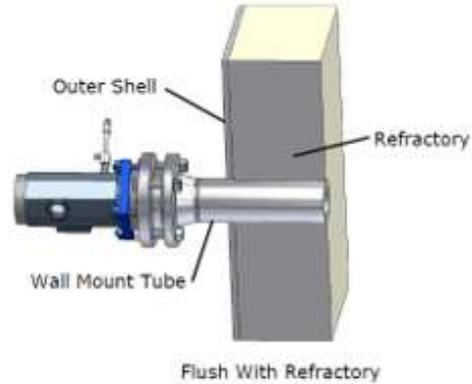


II. Solutions for Measurement & Automation Applications

9. CANTY High Temperature Camera Systems



HUYNH BANG



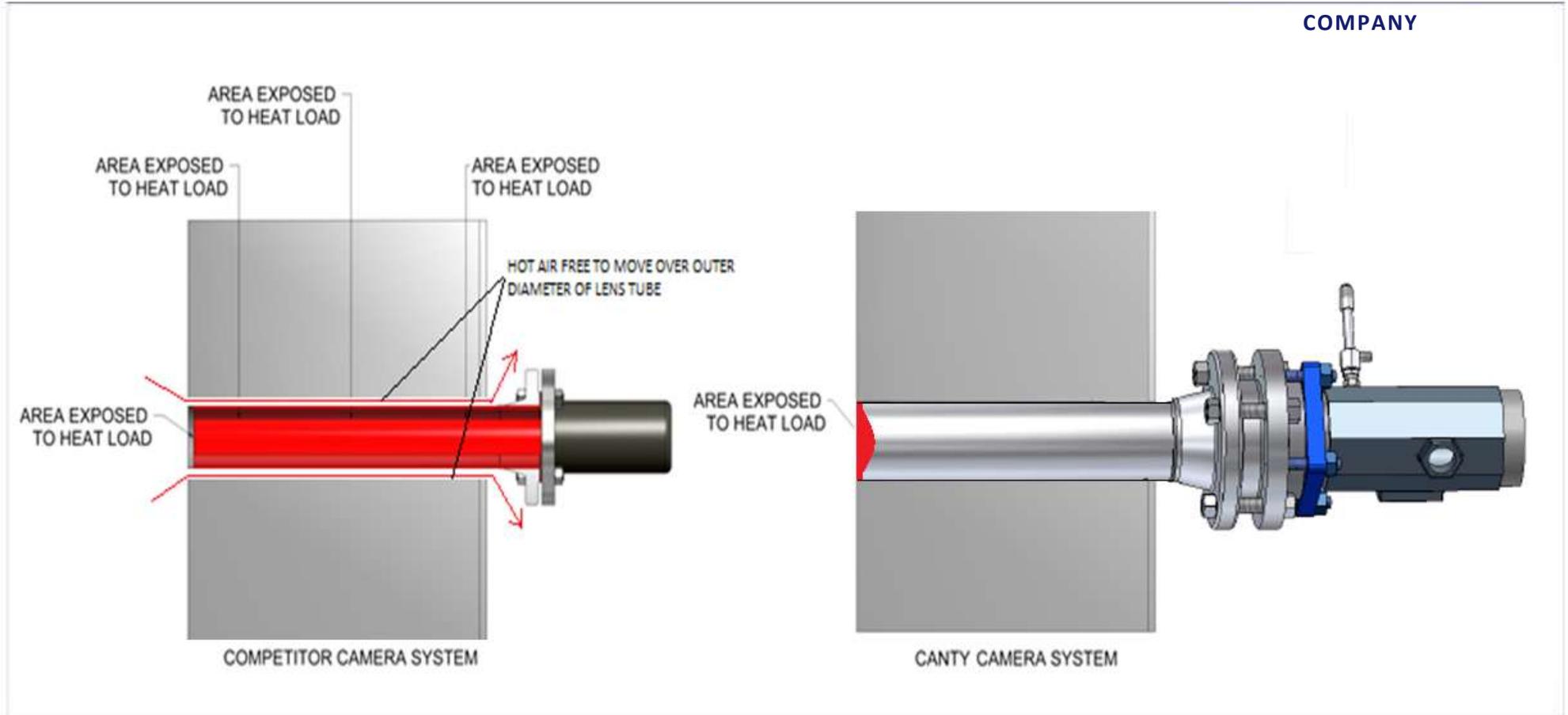
II. Solutions for Measurement & Automation Applications

9. CANTY High Temperature Camera Systems



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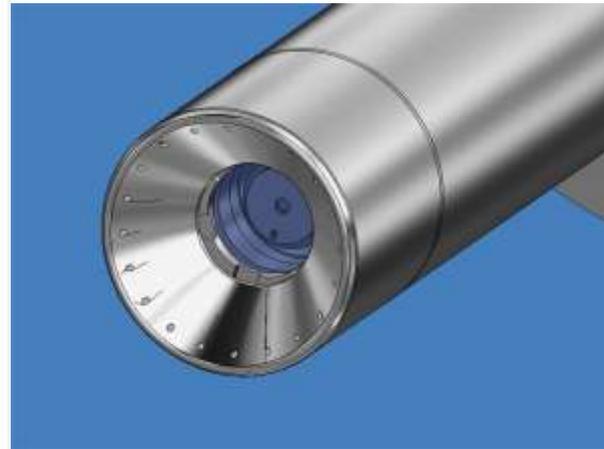
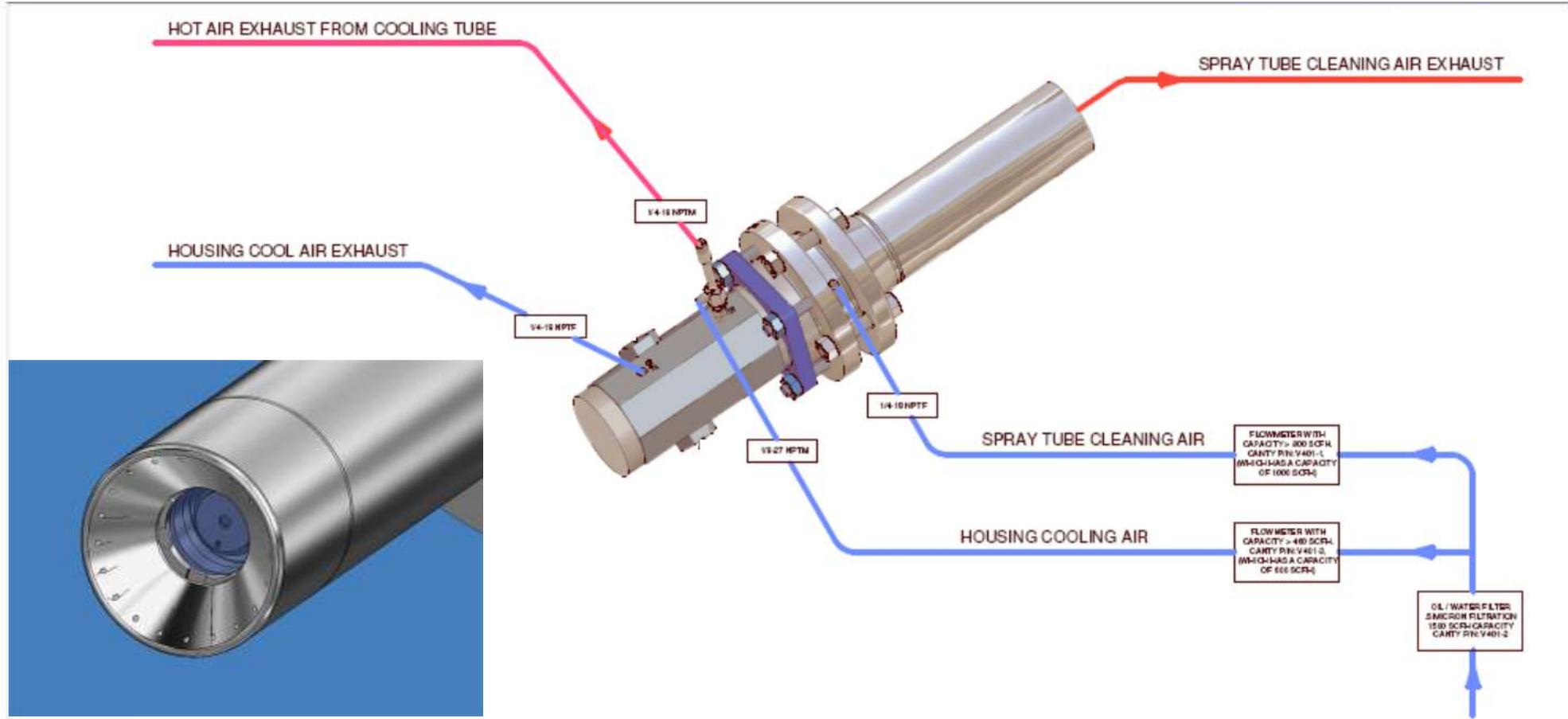


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9. CANTY High Temperature Camera Cleaning / Cooling Air Layout



II. Solutions for Measurement & Automation Applications

9. CANTY High Temperature Camera Systems



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II. Solutions for Measurement & Automation Applications

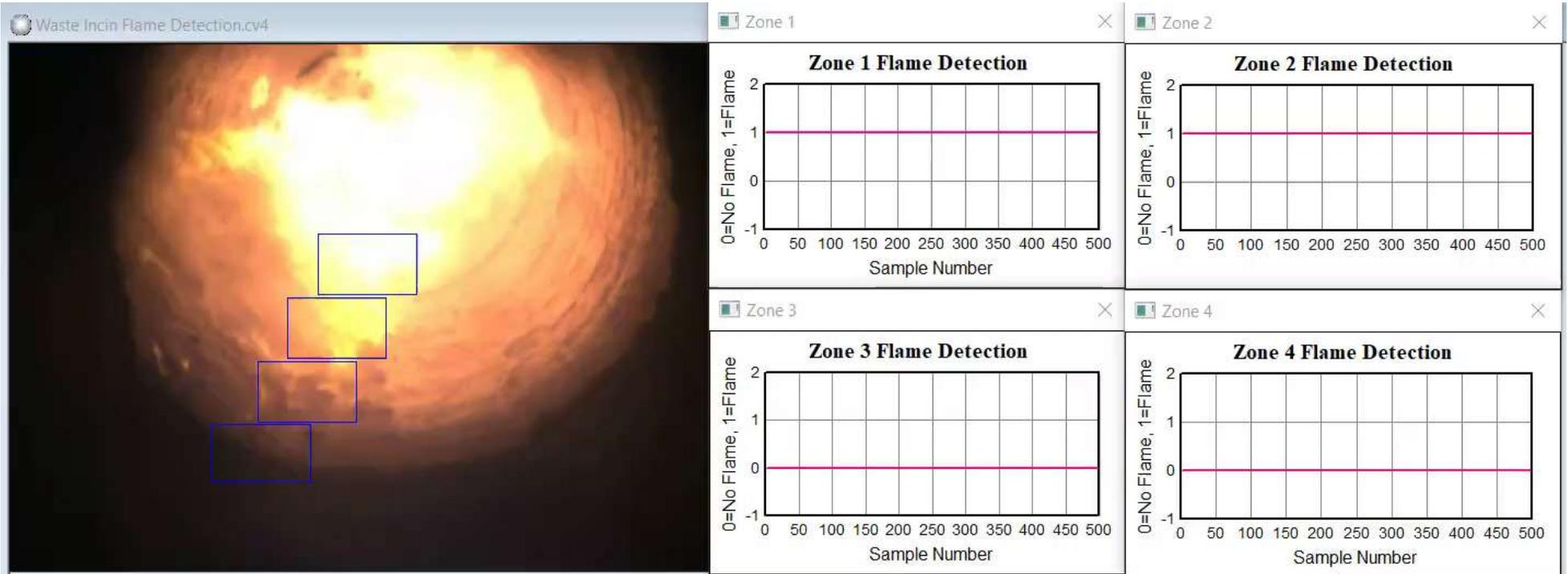
9. CANTY High Temperature Camera Flame Detection



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Video - flame detection in waste incinerator



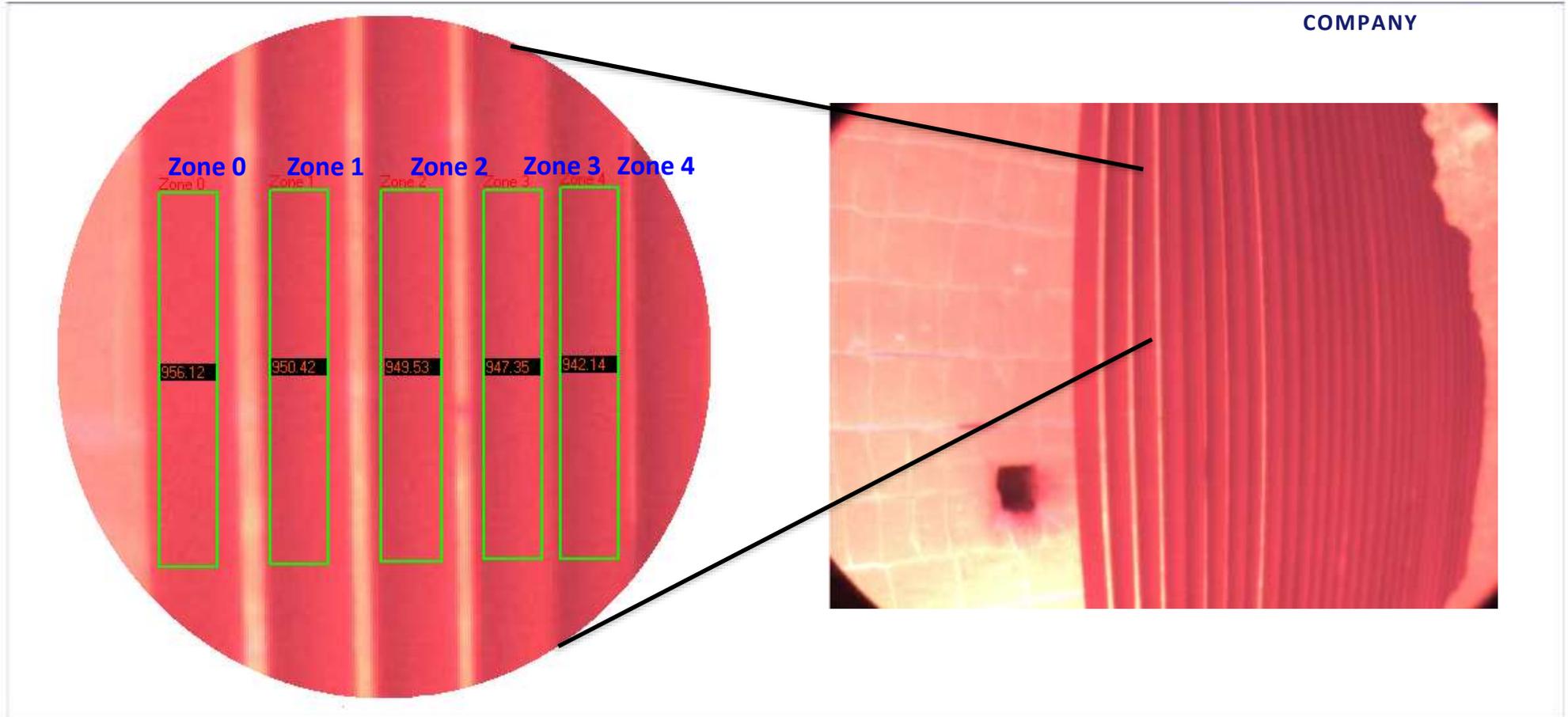
II. Solutions for Measurement & Automation Applications

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



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II. Solutions for Measurement & Automation Applications

9. CANTY Equipment for Dry Particle Size & Shape



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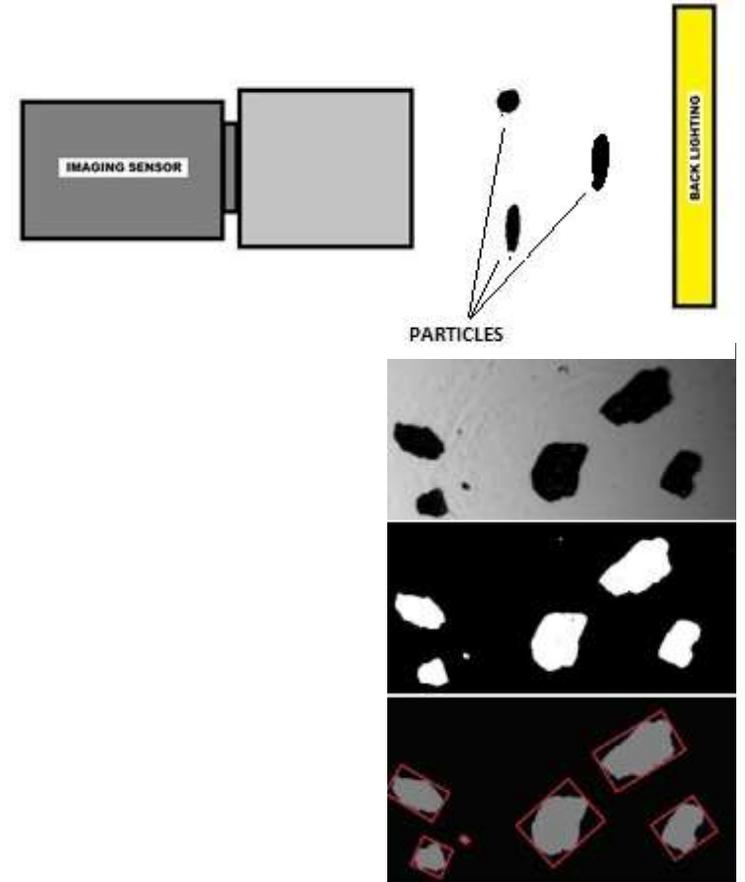
II. Solutions for Measurement & Automation Applications

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....

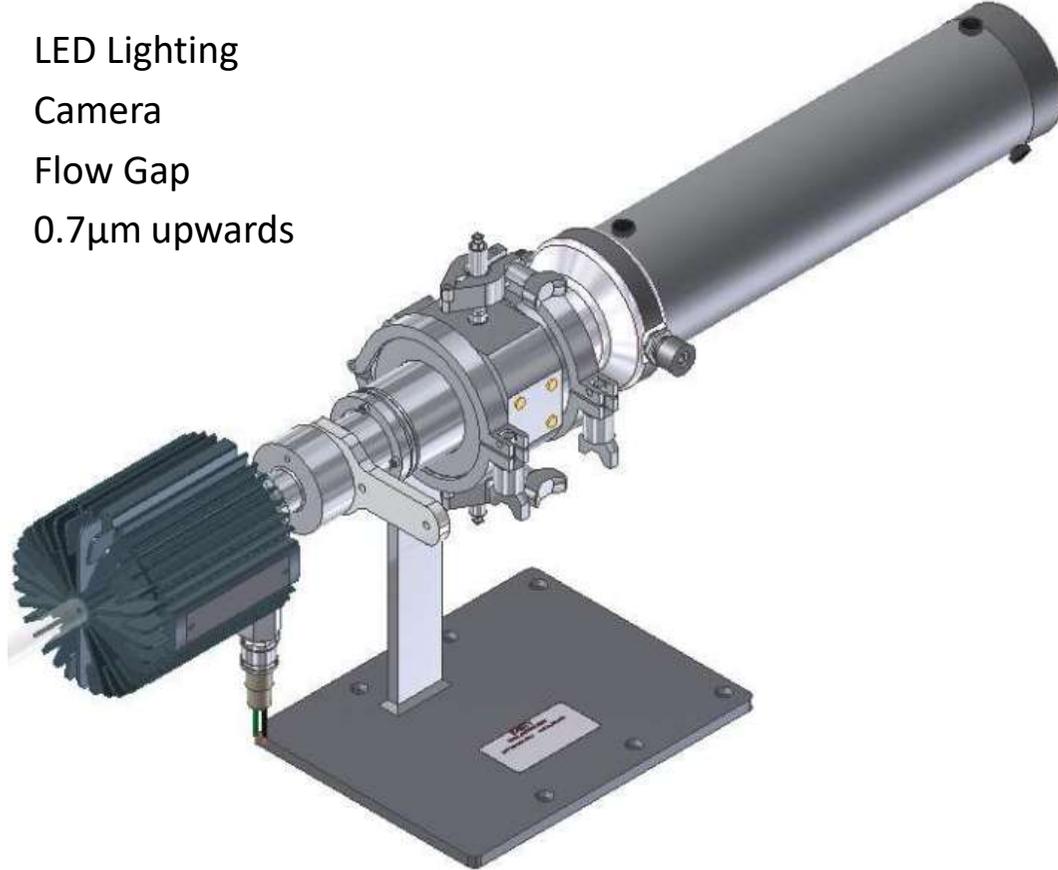
Systems available for Liquids Slurries and Dry Solids



II. Solutions for Measurement & Automation Applications

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

- LED Lighting
- Camera
- Flow Gap
- 0.7 μm upwards



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II. Solutions for Measurement & Automation Applications

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

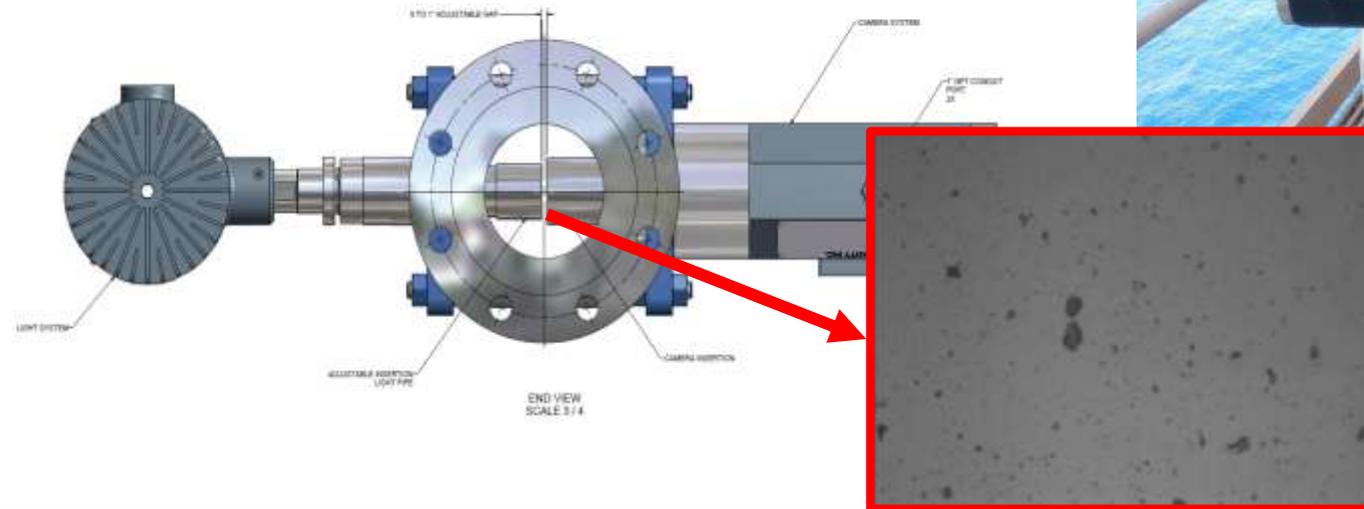


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Inflow Inline System - Mounts directly in pipeline as a spool piece and fluids flows through it

- LED Lighting
- Camera
- Flow Gap
- 0.7 μ m Upwards



II. Solutions for Measurement & Automation Applications

9. CANTY Solid Sizer LAB



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Video –
Solid sizer in LAB



II. Solutions for Measurement & Automation Applications



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9. CANTY Solid Sizer LAB

Video –Solid sizer in LAB



II. Solutions for Measurement & Automation Applications

9. CANTY Particle Sizing Systems



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Particle Volume Distribution 1

Particle Population Distribution 2

	MEAN	MAX	MIN	MEDIAN	MODE	STDEV
MINOR DIAMETER	5.076	36.400	1.560	5.770	NaN	3.341
MAJOR DIAMETER	6.538	37.960	1.560	6.980	NaN	5.071
ASPECT RATIO	1.296	3.625	1.000	1.221	NaN	0.325
BOUNDING RECT WIDTH	3.863	36.400	1.560	4.420	NaN	4.319
BOUNDING RECT HEIGHT	5.952	37.960	1.560	6.420	NaN	6.882
BOUNDING RECT DIAGONAL	8.520	51.477	2.206	6.547	NaN	6.370
PERIMETER	19.849	115.347	5.195	14.581	NaN	15.959
CONVEX HULL PERIMETER	16.314	114.200	3.120	12.014	NaN	13.852
HOLEY PERIMETER	NaN	0.000	0.000	NaN	NaN	NaN
MAX FERET DIAMETER	7.396	36.247	2.206	5.719	NaN	5.291
EQUIVALENT ELLIPSE MAJOR AXIS	7.830	43.748	1.708	5.520	NaN	6.816
EQUIVALENT ELLIPSE MINOR AXIS	4.000	34.432	1.395	5.185	NaN	2.720
EQUIVALENT ELLIPSE MAJOR AXIS (FERET)	4.951	16.645	1.404	3.554	NaN	3.497
EQUIVALENT RECT LONG SIDE	5.982	42.749	1.299	5.754	NaN	6.098
EQUIVALENT RECT SHORT SIDE	3.843	28.857	1.299	3.884	NaN	2.317
EQUIVALENT RECT DIAGONAL	7.412	43.374	1.837	5.177	NaN	6.488
EQUIVALENT RECT SHORT SIDE (FERET)	3.955	28.783	1.103	2.791	NaN	2.747
AVERAGE HORIZ. SEGMENT LENGTH	2.990	15.025	0.811	1.982	NaN	1.333
AVERAGE VERT. SEGMENT LENGTH	2.185	15.025	0.811	1.488	NaN	1.575
HYDRAULIC DIAMETER	1.211	0.113	0.446	0.859	NaN	0.830
WADDELL DISK DIAMETER	5.481	36.582	1.760	4.240	NaN	3.876
AREA	35.197	1051.045	2.634	16.126	NaN	66.418
HOLEY AREA	NaN	0.000	0.000	NaN	NaN	NaN

Summary Statistics:

Dv05	5.200
Dv10	6.340
Dv20	8.840
Dv30	10.920
Dv40	13.000
Dv50	15.080
Dv60	16.120
Dv70	21.840
Dv80	24.440
Dv90	29.640
Dv95	36.400
Dv100	36.400
Dv06	1.560
Dv10	1.560
Dv20	2.080
Dv30	2.600
Dv40	3.120
Dv50	3.640
Dv60	4.160
Dv70	5.720
Dv80	7.280
Dv90	8.840
Dv95	14.360
Dv100	36.400

Summary: Total Count: 364, Total Area: 10326.3, Total Volume: 39121, PPM: 32.9816, PPM: 4.7946.8

II. Solutions for Measurement & Automation Applications

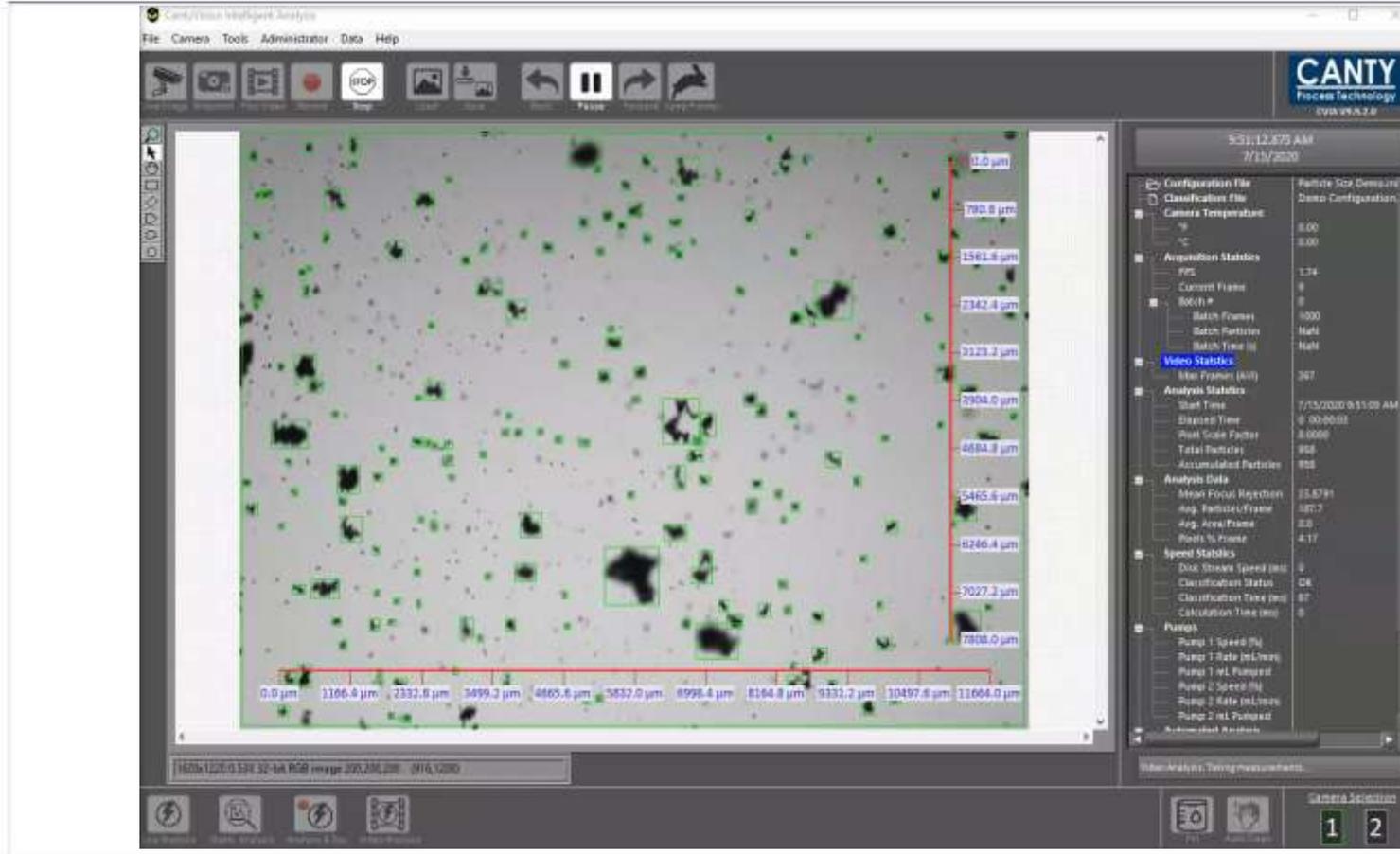
9. CANTY Particle Sizing Systems



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Video –
Particle Sizing Systems
on CANTY Vision software



II. Solutions for Measurement & Automation Applications

9. CANTY Particle Sizing Systems



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CantyVision Intelligent Analysis

File Camera Tools Administrator Data Help

Use Image Snapshot Play Index Record Stop Load Save Back Pause Forward Jump Frames

Summary Data

Particle Class: SOLIDS

Graph 1: Population Distribution

Graph 2: Volumetric Distribution

Particle Population Distribution 1

Particle Volumetric Distribution 2

	MEAN	MAX	MIN	MEDIAN		
MAJOR DIAMETER	167.906	2120.000	56.000	120.000	Dv05	176.000
ASPECT RATIO	1.296	3.573	1.000	1.219	Dv10	240.000
BOUNDING RECT WIDTH	145.966	2120.000	32.000	104.000	Dv20	368.000
BOUNDING RECT HEIGHT	153.713	2024.000	32.000	112.000	Dv30	528.000
BOUNDING RECT DIAGONAL	214.581	2907.975	73.756	152.840	Dv40	688.000
PERIMETER	500.928	8137.189	163.038	348.188	Dv50	816.000
CONVEX HULL PERIMETER	437.432	6290.222	93.295	303.528	Dv60	1040.000
HOLES' PERIMETER	NaN	0.000	0.000	NaN	Dv70	1312.000
MAX FERET DIAMETER	186.538	2334.988	64.498	134.104	Dv80	1464.000
EQUIVALENT ELLIPSE MAJOR AXIS	201.349	3593.860	53.042	136.538	Dv90	1636.000
EQUIVALENT ELLIPSE MINOR AXIS	97.199	1071.355	54.461	76.271	Dv96	2024.000
EQUIVALENT ELLIPSE MINOR AXIS (FERET)	117.022	1537.602	36.628	86.647	Dv100	2024.000
EQUIVALENT RECT LONG SIDE	151.028	3496.721	40.760	91.715	Dn05	48.000
EQUIVALENT RECT SHORT SIDE	99.436	1201.344	29.418	77.648	Dn10	56.000
EQUIVALENT RECT DIAGONAL	185.458	3548.176	57.643	124.528	Dn20	56.000
EQUIVALENT RECT SHORT SIDE (FERET)	91.909	1207.630	28.768	68.052	Dn30	72.000
AVERAGE HORIZ. SEGMENT LENGTH	770.668	10430.182	221.091	593.920	Dn40	80.000
AVERAGE VERT. SEGMENT LENGTH	825.137	8967.477	230.400	649.343	Dn50	96.000
HYDRAULIC RADIUS	30.166	342.838	11.376	23.224	Dn60	112.000
					Dn70	136.000

Total Count: 3503 Total Area: 3.19600E+7 Total Volume: 4.62305E+11 PPM: 5.00603E+6 PPMI: 174.305

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**



<p>Agriculture</p> <ul style="list-style-type: none"> DAWU mimosaTEK Rynan Tây Ninh Tapioca Vietnam Tapioca <p>Boiler Industry</p> <ul style="list-style-type: none"> Hong Nhut IMECO Boiler Martech Boiler Vietnam Boiler <p>Breweries</p> <ul style="list-style-type: none"> Carlsberg HABECO Heineken SABECO Vietnam Brewery <p>Car Manufacturing</p> <ul style="list-style-type: none"> Ford Mercedes-Benz Thaco Toyota VinFast <p>Ceramic Industry</p> <ul style="list-style-type: none"> Caesar Sanitary Wares Frit hue Minh Long I TOTO Vietnam <p>Cement Industry</p> <ul style="list-style-type: none"> Insee (Siam City Cement) Duyen Ha Cement Ha Tien 1 Nghi Son Cement Saint Gobain Song Thao Cement <p>Chemical Industry</p> <ul style="list-style-type: none"> Ba Con Co Ca Mau Fertilizer Dow Henkel LG Vina Chemical Phu My Fertilizer Procter & Gamble Southern Basic Chemical 	<p>Electronics & Semiconductor</p> <ul style="list-style-type: none"> First Solar Hydra Samsung SEI Electronic Components <p>Food & Beverage</p> <ul style="list-style-type: none"> Ajinomoto Andros Dalatmilk Café Outspan Coca Cola C.P. Cooperation Friesland Campina iLD Coffee Nestle Orion Pepsi Perfetti van Melle Phuong Vy Tata Coffee TH Milk THP Group Trung Nguyen Coffee URC Vedan Vinamilk Vissan <p>Industrial Wood</p> <ul style="list-style-type: none"> May Forestry MDF Quang Tri Scancom Vina Eco Board VRG Dongwah MDF <p>Oil & Gas</p> <ul style="list-style-type: none"> Linde Gas Long Son Petrochemicals Nghi Son Refinery and Petrochemical Petro Vietnam Premier Oil Total Rosneft Puma Energy Saigon Petro VietsovPetro 	<p>Paper, Packaging & Printing</p> <ul style="list-style-type: none"> An Hoa Paper Cheng Loong Crown Packaging SCG Paper / Vina Kraft Paper Vidon Wattens Delfort Group <p>Pharmaceutical</p> <ul style="list-style-type: none"> B. Braun PYMEPHARCO Tien Tuan Pharmaceutical Machinery Suheung Nanogen Nipro Pharma <p>Power Plants</p> <ul style="list-style-type: none"> Phu My 3 Power Plant Nhiệt điện Phả Lại Nhiệt điện Quảng Ninh <p>Steel Industry</p> <ul style="list-style-type: none"> Formosa Ha Tinh Hoa Phat Steel Posco Ton Dong A TVP Steel <p>Shipbuilding & Marine</p> <ul style="list-style-type: none"> Austal HADUCO Kristian Gehrhard Jepsen PV Shipyard Triyards <p>Textile & Garment</p> <ul style="list-style-type: none"> Concord Textile Formosa Taffeta Hyosung Nien Hsing Textile Polytex Far Eastern
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IV. Conclusion

Huynh Bang is a reliable and competent Partner.



Huynh Bang is your partner for a Market Entry in Vietnam:

- 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.



HUYNH BANG

COMPANY

36 Street no. 2, Quarter 22,
Binh Trung Ward,
Ho Chi Minh City,
Viet Nam

Tel: +84 (0)28 730 700 18
Fax: +84 (0)28 730 700 19

Visit us:

www.huynhbang.com

eMail us:

info@huynhbang.com



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INDUSTRIAL HEAT

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ecom[®]

hp[®]



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Central Asia and the Pacific

MEASUREMENT & AUTOMATION

VEGA

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optris
Industrial Measurement

KEM
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SCHMIDT
Technology

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OBERON
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