Huynh Bang Company
Corporate Presentation

Ho Chi Minh City, Vietnam
April 2026

Agenda

HUYNH BANG
COMPANY

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

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

III. Contribute to the Success of our Customers

IV. Conclusion

I. Company Profile

1. Vision, Mission & Core Values.

HUYNH BANG COMPANY

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

HUYNH BANG COMPANY

Founded in:	2003
Sphere of activity:	Supplier and Service Agent of Industrial Equipment „Made in Germany“ for Vietnam Market.
Partnering with over 10 Manufacturers from Germany	
Legal and administrative headquarters:	
Employees:	16
Office space:	174 m²

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

I. Company Profile

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

HUYNH BANG

Huynh Bang Company				
Sales				
Industrial Heat		Measurement & Automation		
Oil, Gas and Dual-fuel Burners	weishaupt	Level Measurement Point Level Detection and Pressure	VEGA	Controller, Software Inventory System – Hosting Service
Flue Gas Analysis, Pressure & Gas/Leakage Detection	ecom	Temperature, Liquid Analysis, Pressure, Flow and Humidity	JUMO	Controllers, Recorders, Automation Systems and Monitoring
Steam Boilers, Hot Water Boilers	BOSCH	Non-contact infrared Temperature	optris	
Burner Supply Pumps, Feed Pumps & Delivery Aggregates	hp TECHNIK	Flow Measurement	KEM	
		Mass Flow Meters & Controllers	vögtlin instruments	
		Variable Area Flow Meter	meister	
		Gas and Air Flow	SCHMIDT Technology	
		Vessel Lights Sight Glasses Vessel Closures	CANTY PROCESS TECHNOLOGY	Process & High Temperature Cameras, Patricle Size Systems Software & Hardware
Service				

I. Company Profile

4. Management understanding both Western and Vietnamese culture.

HUYNH BANG COMPANY

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

HUYNH BANG COMPANY

Sales Team

Technical Support

Finance, Accounting & Logistics

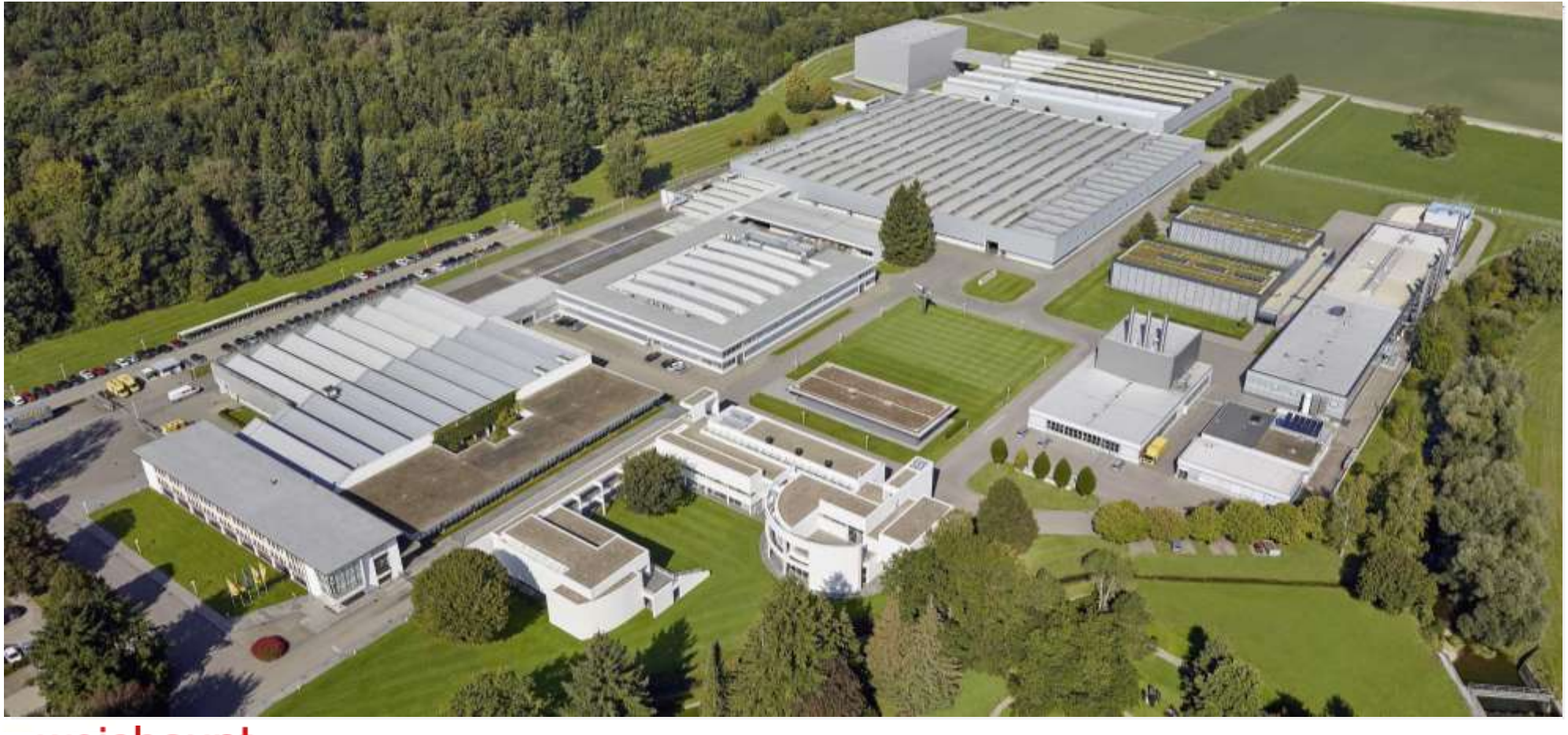
Service Team

I. Company Profile

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

II. Solutions for Industrial Heat Applications

1. Weishaupt Headquarters in Schwendi, Germany



II. Solutions for Industrial Heat Applications

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

HUYNH BANG COMPANY

–weishaupt–

That’s reliability.

II. Solutions for Industrial Heat Applications

1. Weishaupt – from low to high capacity ranges.

HUYNH BANG COMPANY

- Oil, gas and dual-fuel burners

  W range
  - Exemplary effiency
  - 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

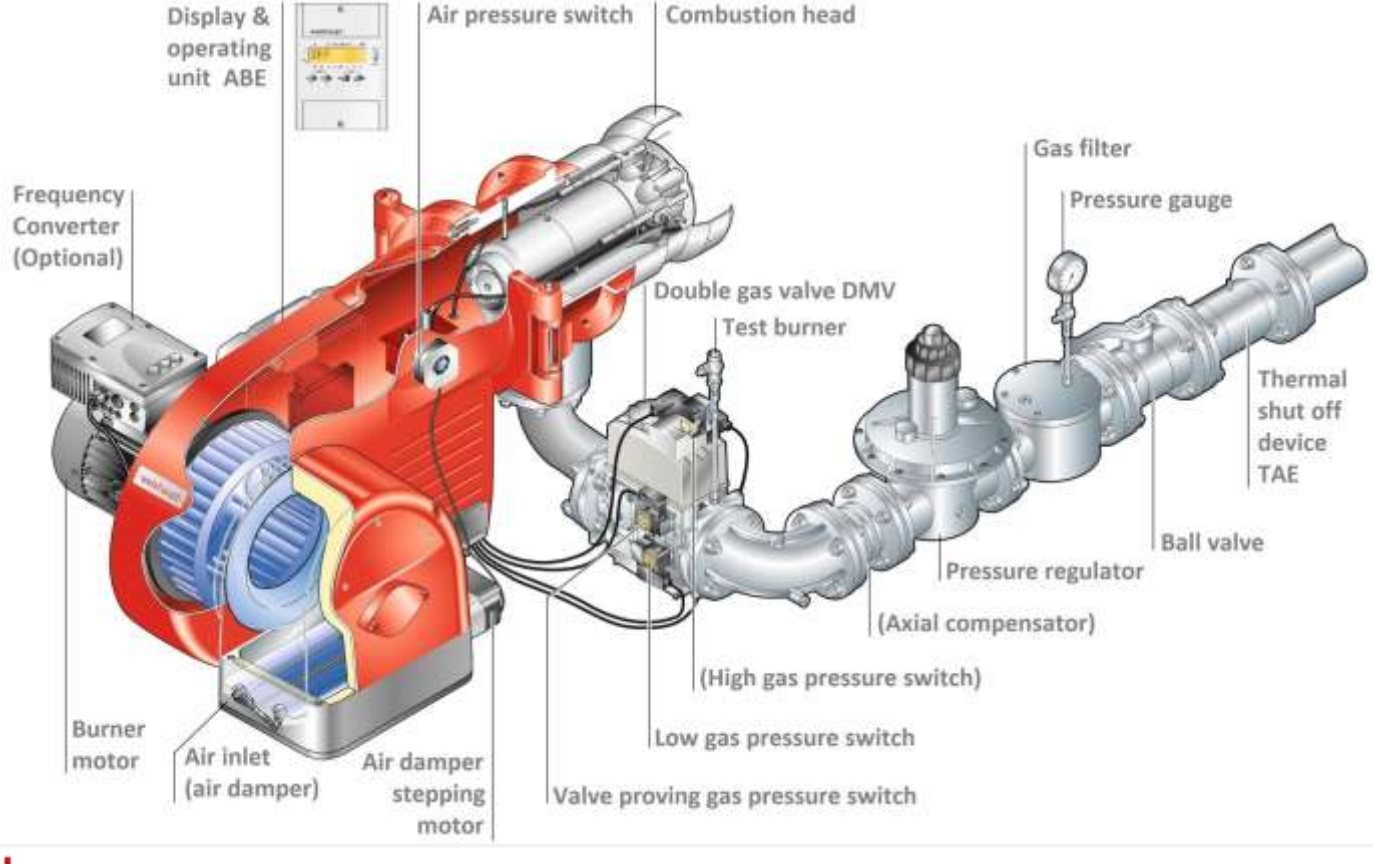
  Industrial burners WK & WKmono
  - Digital precision
  - Minimal emissions
  - Maximum economy
  - Tremendous versatility:
    70 - 32.000 kW
  - Convenient servicing
  - Long life

II. Solutions for Industrial Heat Applications

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

HUYNH BANG COMPANY

WM-G30 with flanged gas valve train DMV



WM – gas burner

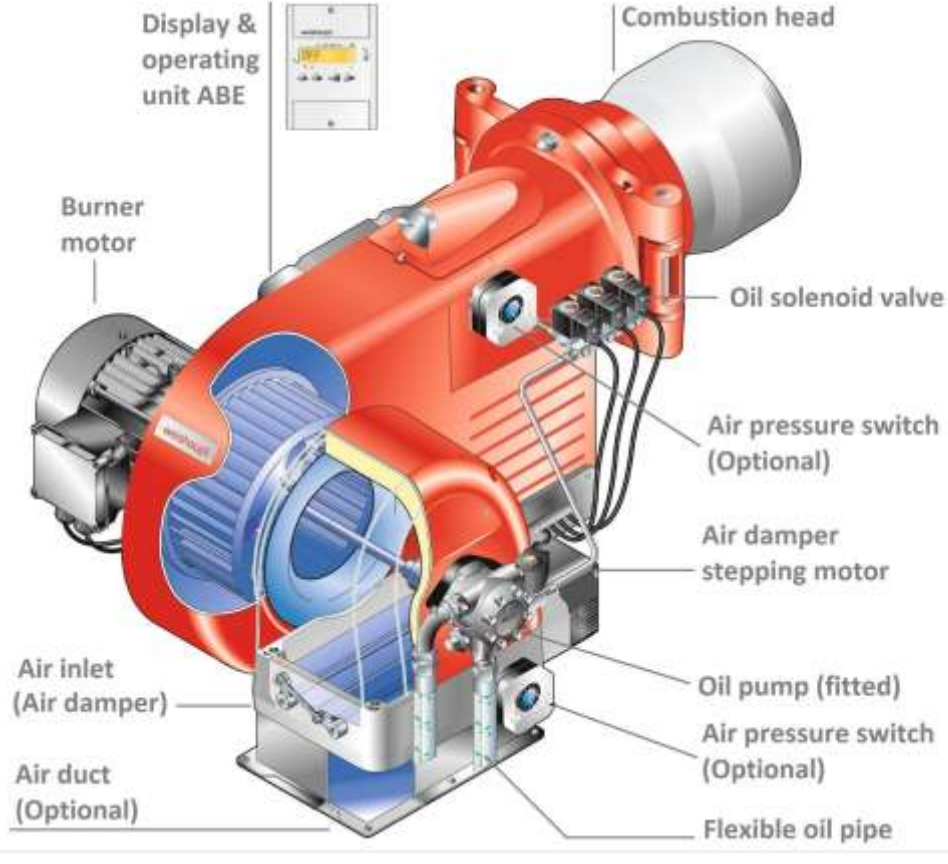
CAD portal

II. Solutions for Industrial Heat Applications

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

HUYNH BANG COMPANY

WM-L30 – Oil operation with components visible externally



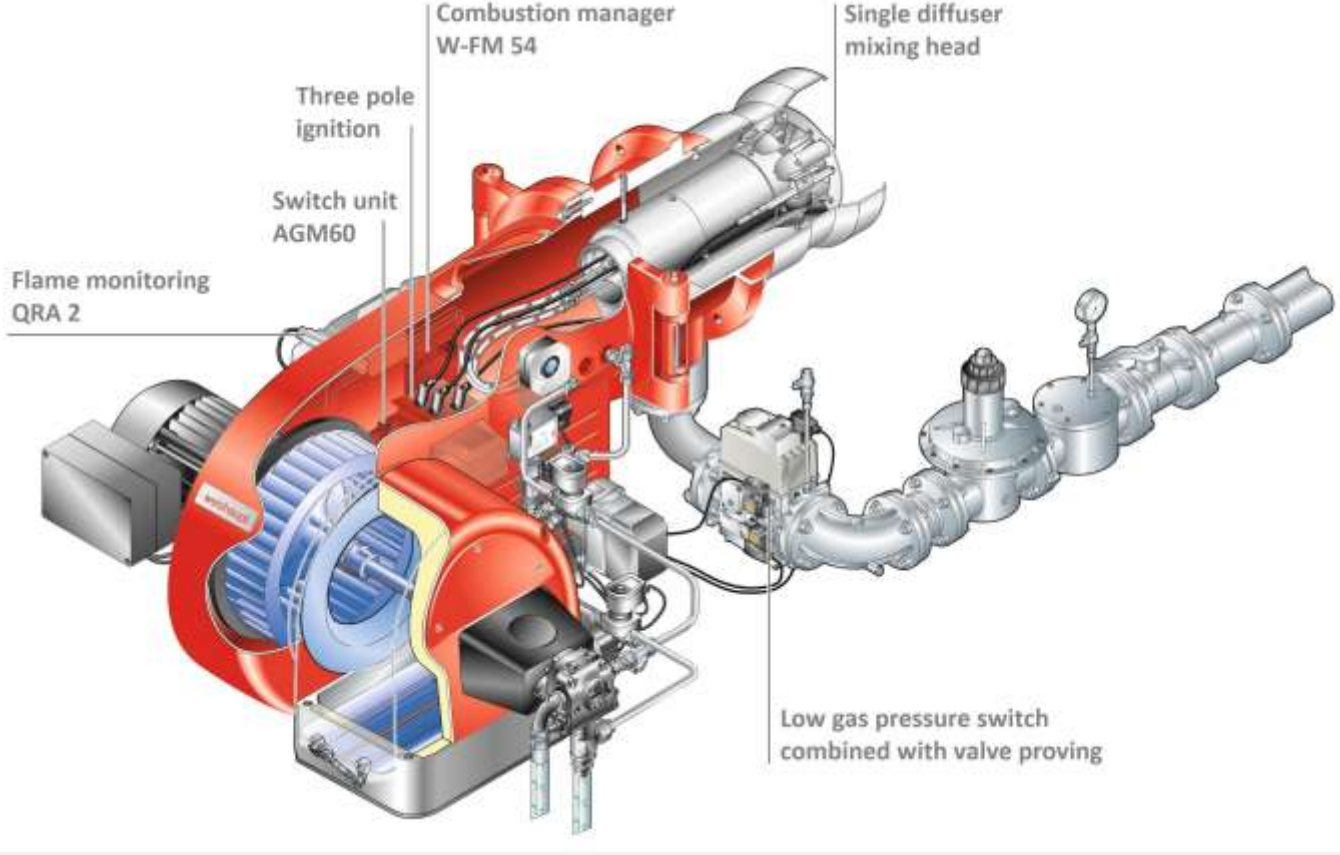
WM – oil burner CAD portal

II. Solutions for Industrial Heat Applications

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

HUYNH BANG COMPANY

WM-GL30 – Dual fuel burner with principle differences



WM
Dual fuel burner
CAD portal

II. Solutions for Industrial Heat Applications

1. Weishaupt: Many Applications in various Industries

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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

HUYNH BANG COMPANY

Agriculture

- Grain, grass and green fodder drying
- Feed production

Food industry

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

Textile industry

- Cloth and yarn drying
- Laundry

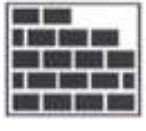
II. Solutions for Industrial Heat Applications

1. Weishaupt: Many Applications in various Industries

HUYNH BANG COMPANY

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

II. Solutions for Industrial Heat Applications

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

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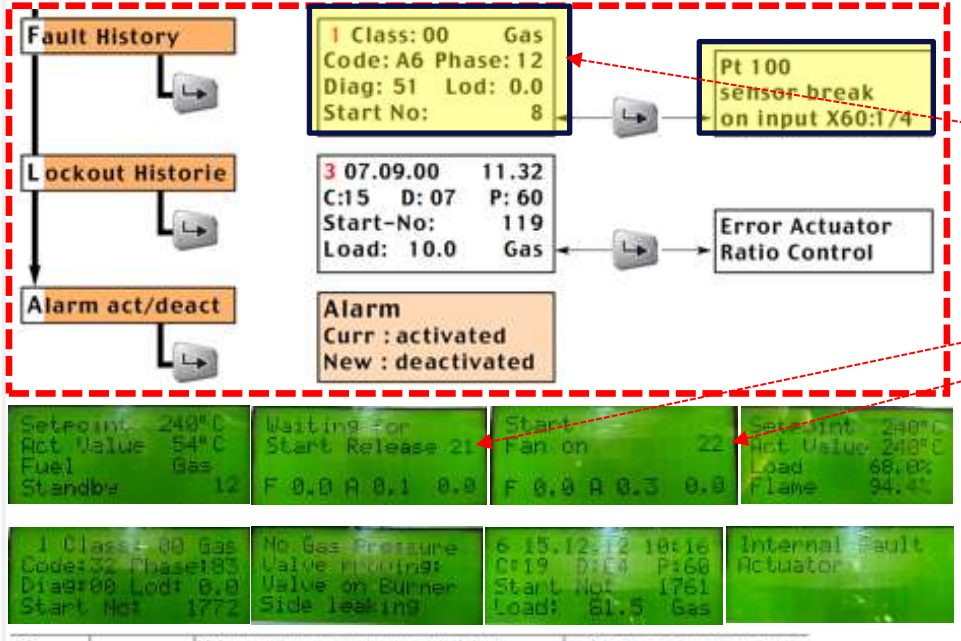
Advantages of W-FM:

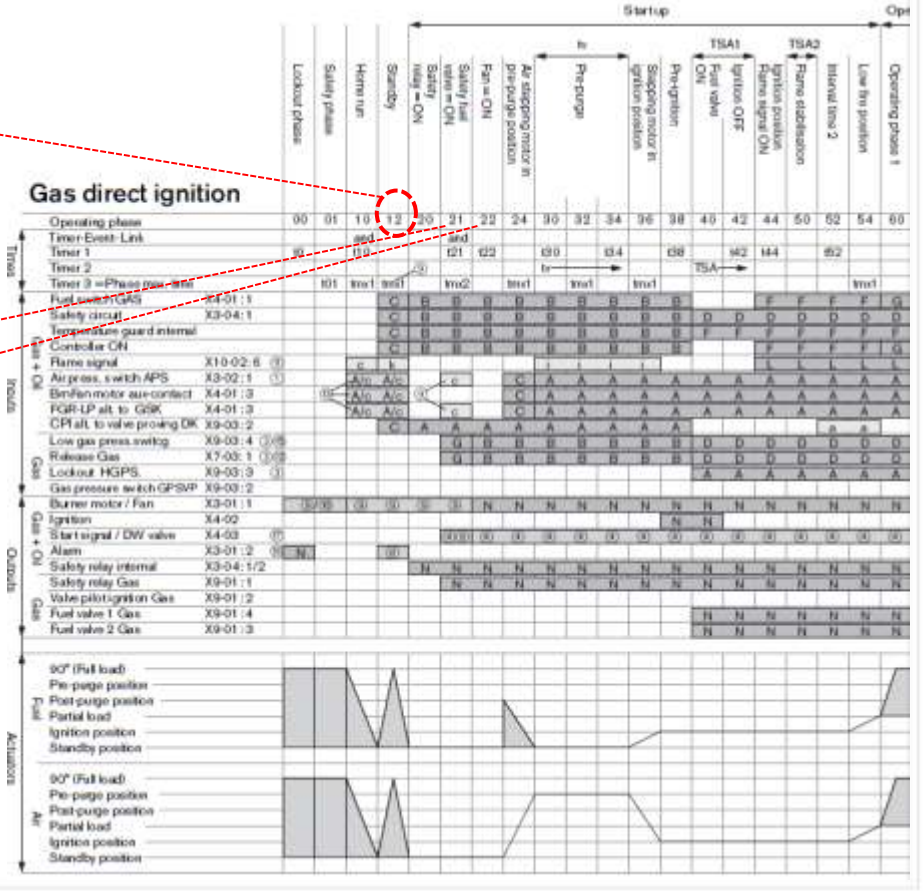
- High accuracy and optimal combustion figures
- Continually reproducible setting figures
- Easy handling, operating and fault history
- Integrated PID (Proportional–Integral–Derivative controller)
- Temperature / Pressure Controller
- Thermal shock protection
- Less spare parts
- Flexible communication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

II. Solutions for Industrial Heat Applications

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



32	–	Valve proving gas pressure switch has dropped out, contact closed, V2 or ignition gas valve leaking or V1 does not open.	▸ Check gas pressure switch ▸ Check double gas valve
19	01 … 2F	Actuator error during comparison between potentiometer channel A and B	If several faults occur, the diagnosis codes are add up.
	01	Air actuator fault	▸ Set `allowed Pot.diff` to `15`, see [ch. 6.13.3]. ▸ Check CAN Bus connection [ch. 5.1]. Internal fault[1]
	02	Fuel actuator fault	
	04	Auxiliary actuator1 fault (`Sliding sleeve`)	
	08	Auxiliary actuator2 fault	
	20	Auxiliary actuator3 fault	



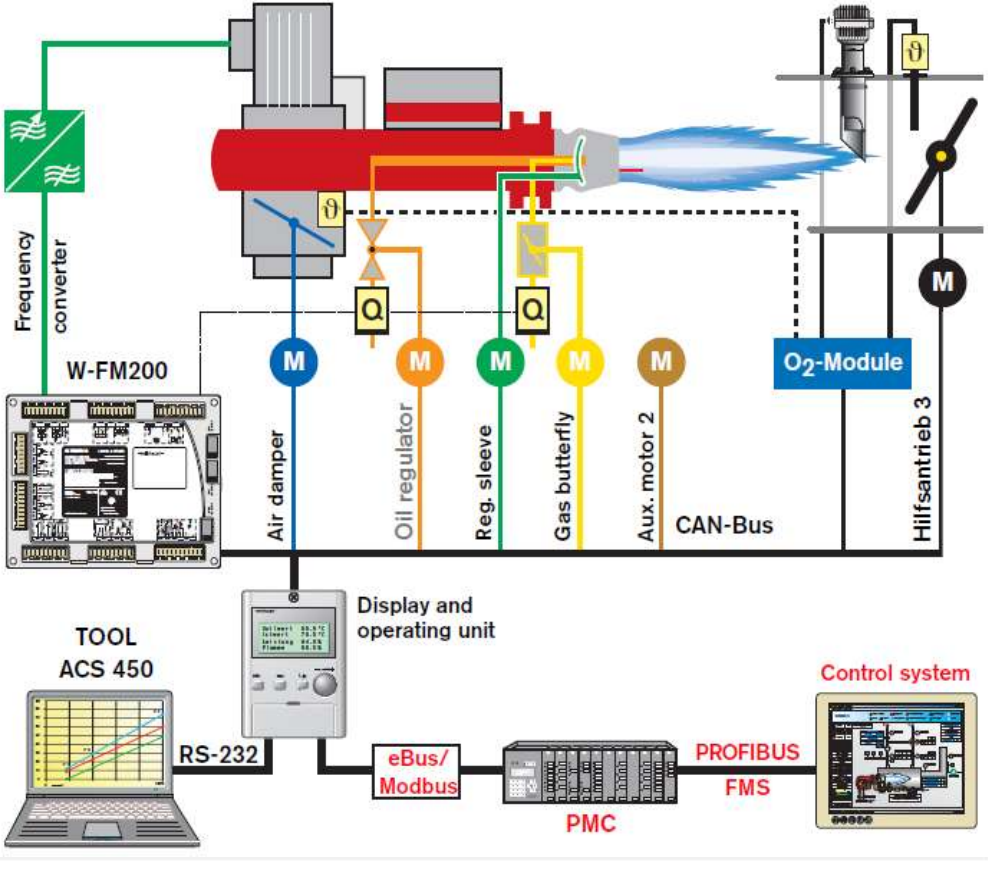
II. Solutions for Industrial Heat Applications

1. Weishaupt with Digital Combustion Management W-FM

HUYNH BANG

From basic to high-end Applications:

- Basic oil, gas & dual-fuel burner
- VSD (variable speed drive)
- O_2-trim
- Remote control & data transfer via bus connection
- Flue gas recirculation
- Parallel operation, Simultaneous operation



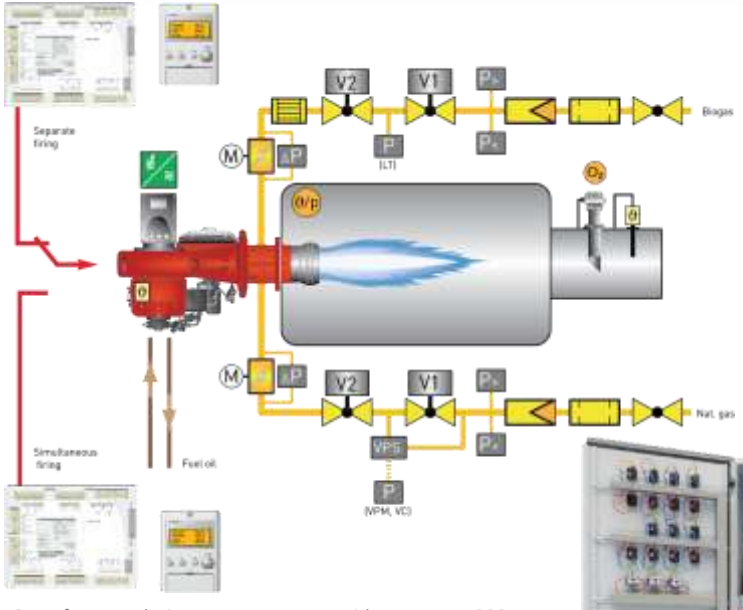
II. Solutions for Industrial Heat Applications

1. Special Application: Simultaneous Combustion

HUYNH BANG COMPANY

<u>The use of renewable fuels demands increasingly specialised solutions:</u>

- 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.
- Commisioning 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

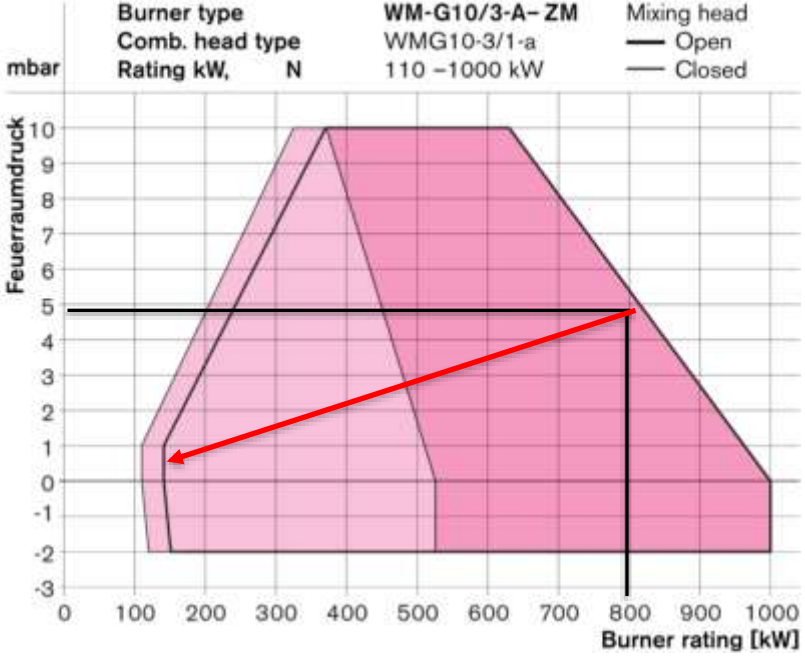
HUYNH BANG COMPANY

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

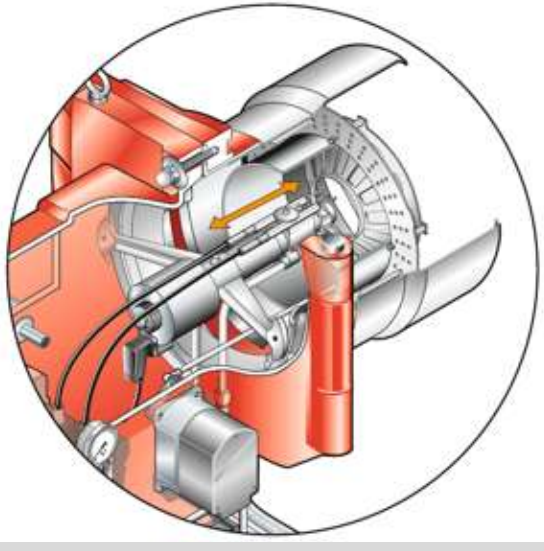
Capacity graph WM-G10/3 version ZM

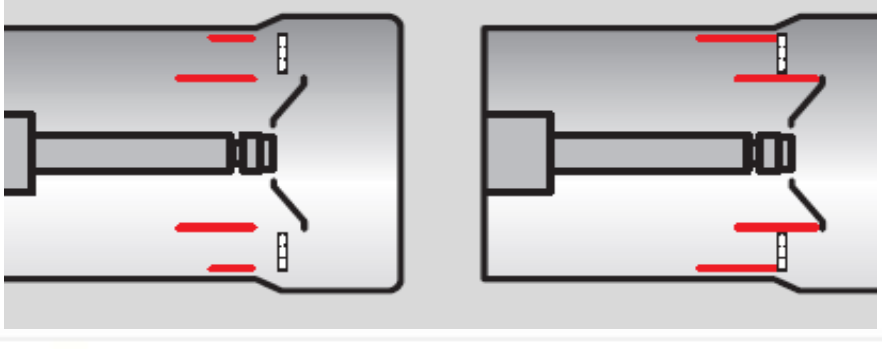


WM-G10/3 version ZM with turndown ratio of **1:8**
Possible min capacity of almost **100** kW at max capacity of **800** kW

II. Solutions for Industrial Heat Applications

1. Weishaupt burners with sophisticated Mixing Heads / Sliding Sleeves



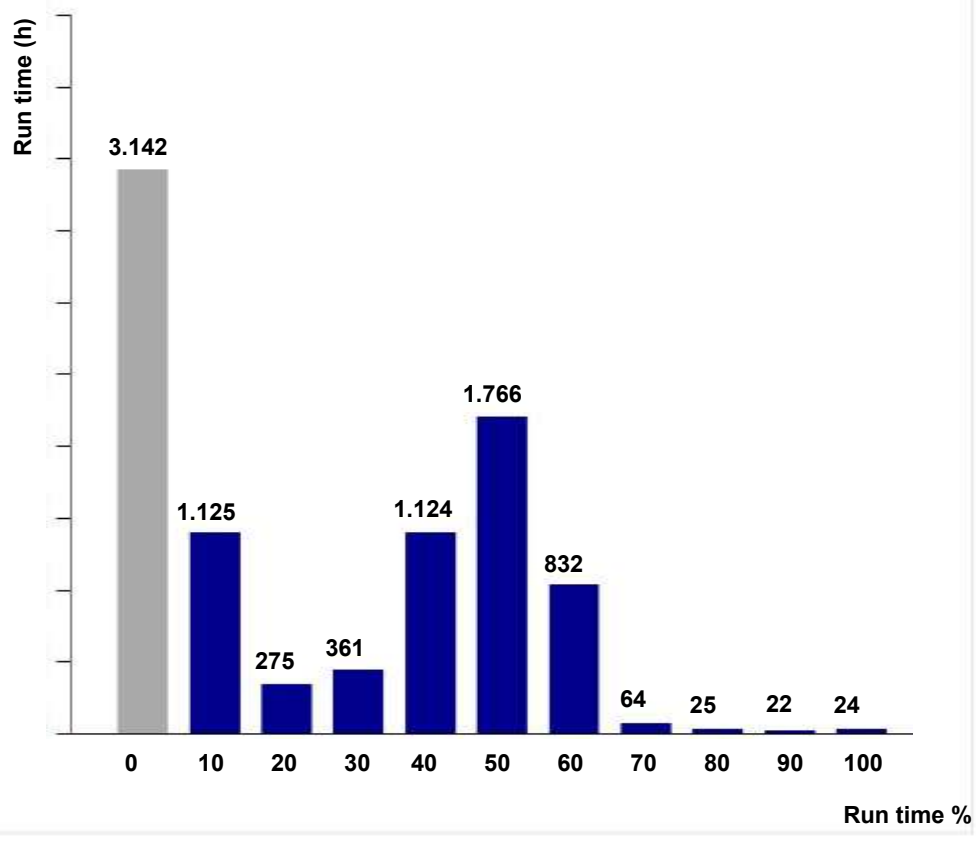


II. Solutions for Industrial Heat Applications

1. Weishaupt Efficiency Calculator

Installation data		
Boiler system	Steam (saturated steam)	
Steam output	10	t/h
Steam pressure	10	Bar
Saturated steam temperature	180	ºC
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	ºC

*** The boiler efficiency refers to the calorific value.**

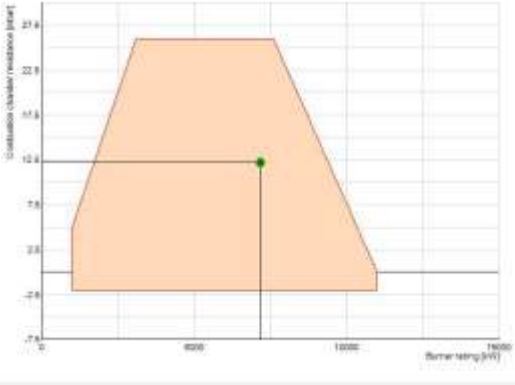


II. Solutions for Industrial Heat Applications

1. Weishaupt Efficiency Calculator

Burner data

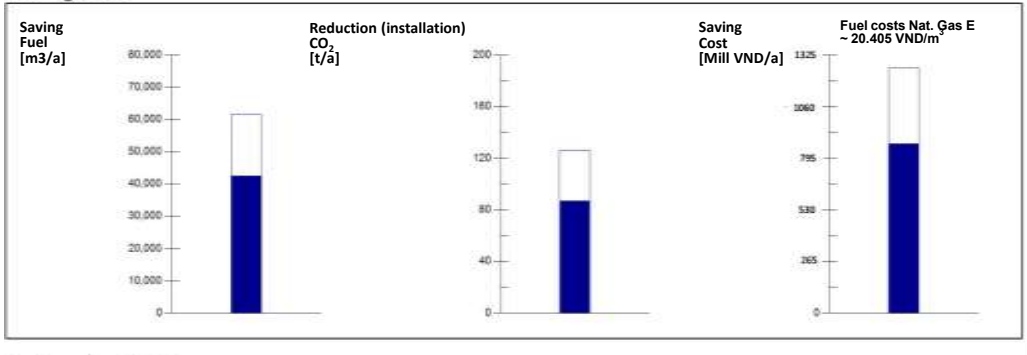
Burner type (new)	WM-G50/2-A ZM-NR		Burner type (old)		
Max. combustion capacity	11.000	kW	Max. combustion capacity	8.000	kW
Min. combustion capacity	1.000	kW	Min. combustion capacity	1.000	kW
Type of operation	Modulating		Type of operation	Modulating	
Fuel	Nat. Gas E	10.24 kWh/m³	Fuel	Nat. Gas E	10.24 kWh/m³
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



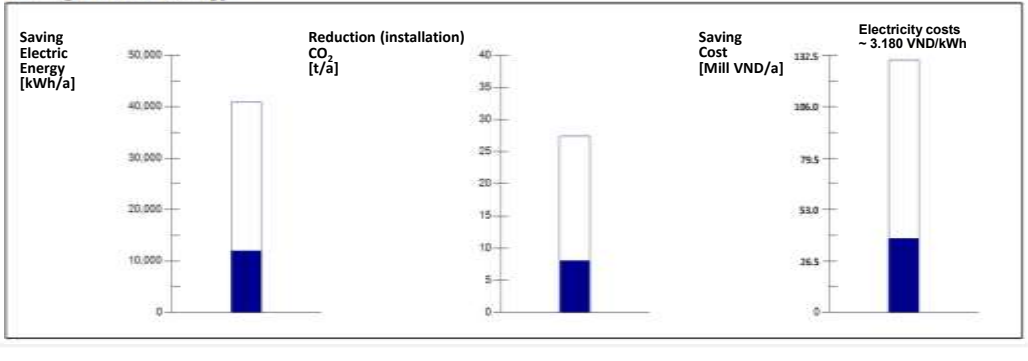
Saving

Burner equipment	Modulating
Speed control	no
O_2 trim	no

Saving Fuel



Saving electric Energy



II. Solutions for Industrial Heat Applications

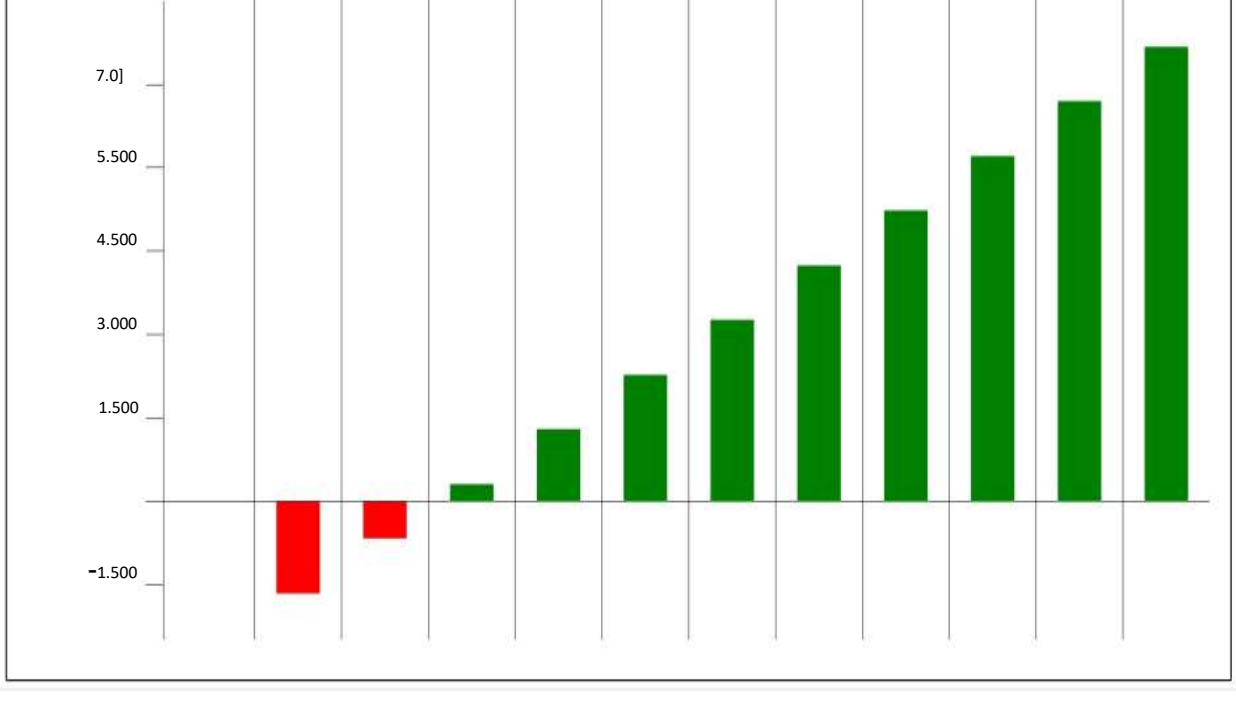
1. Weishaupt Efficiency Calculator

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.

Year		0	1	2	3	4	5	6	7	8	9	10
Net savings	Mill VND		868 trieu	868	868	868	868	868	868	868	868	868
Purchase price	Mill VND	1.55 ty										
Cumulative	Mill VND	-1.550	-682	278	1.146	2.014	2.882	3.750	4.618	5.486	6.354	7.222



II Solutions for Industrial Heat Applications

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

II. Solutions for Industrial Heat Applications

1. Weishaupt W burner references in Vietnam

HUYNH BANG

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

HUYNH BANG

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

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

HUYNH BANG

II. Solutions for Industrial Heat Applications

1. Typical Weishaupt burner installation support & supervision

HUYNH BANG COMPANY

II. Solutions for Industrial Heat Applications

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

HUYNH BANG

II. Solutions for Industrial Heat Applications

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

HUYNH BANG

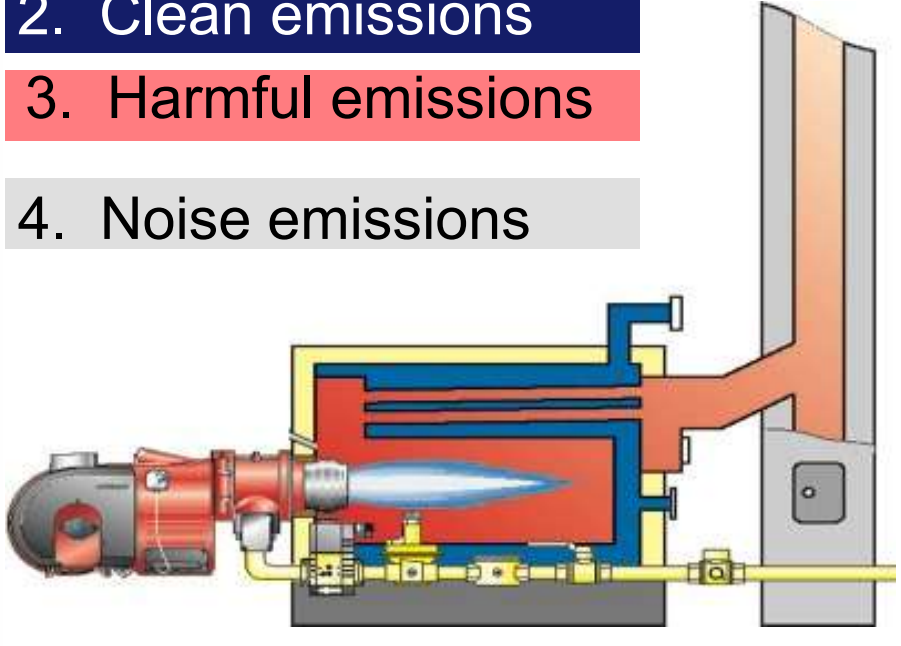
II. Solutions for Industrial Heat Applications

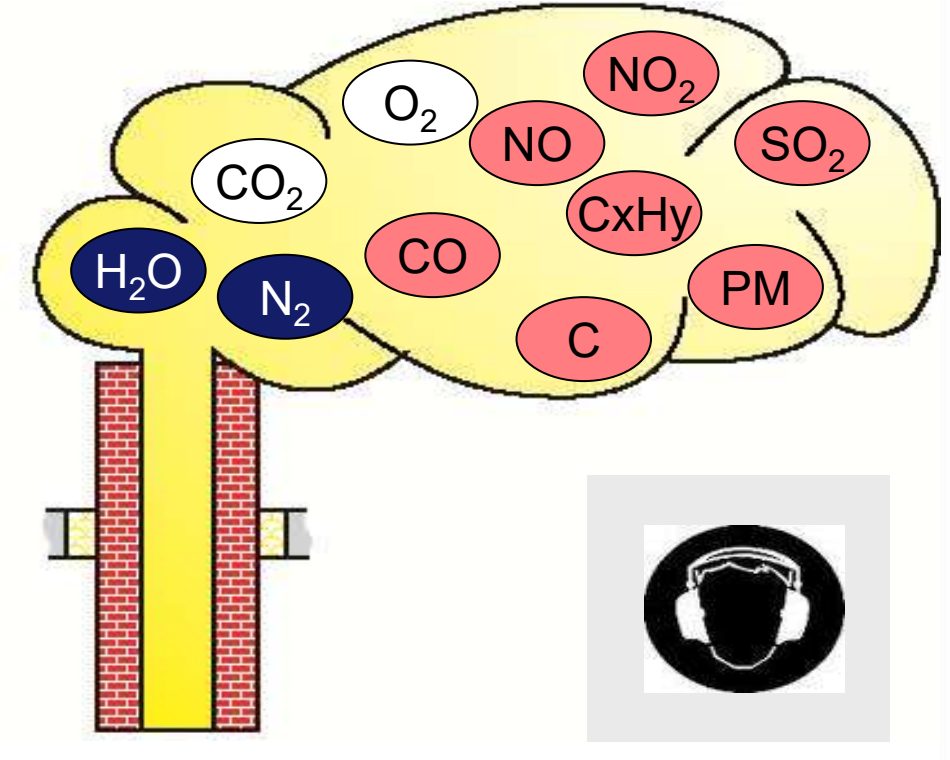
1. Huynh Bang can also offer customer training for their burners.

HUYNH BANG

HUYNH BANG COMPANY

1. Efficiency
2. Clean emissions
3. Harmful emissions
4. Noise emissions





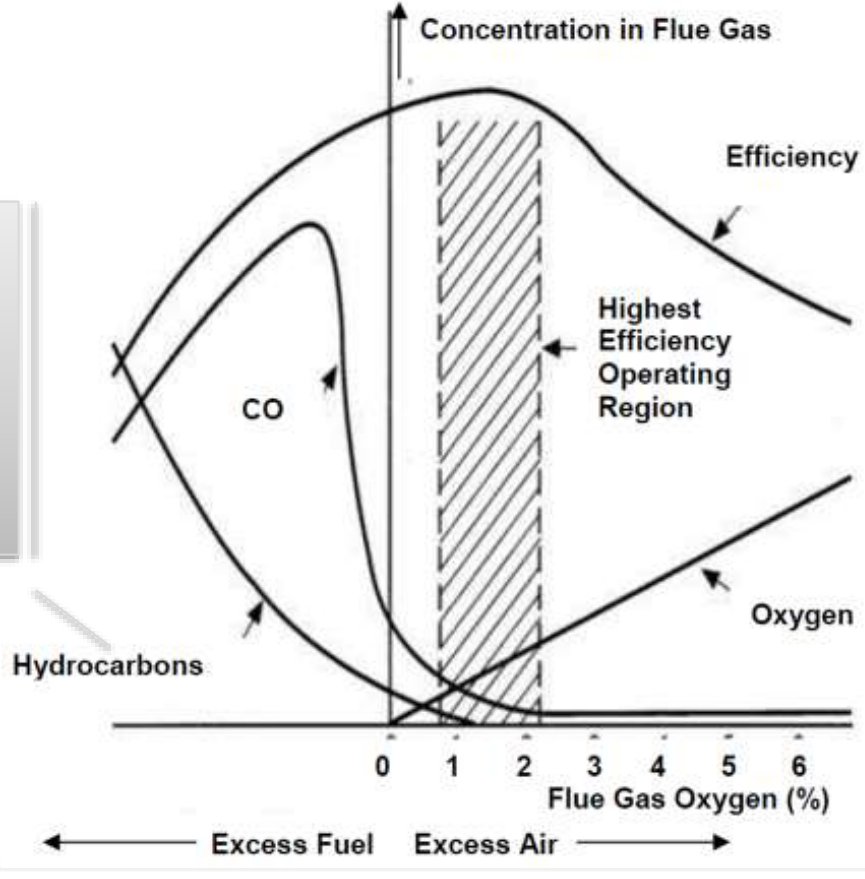
II. Solutions for Industrial Heat Applications

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

HUYNH BANG COMPANY

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

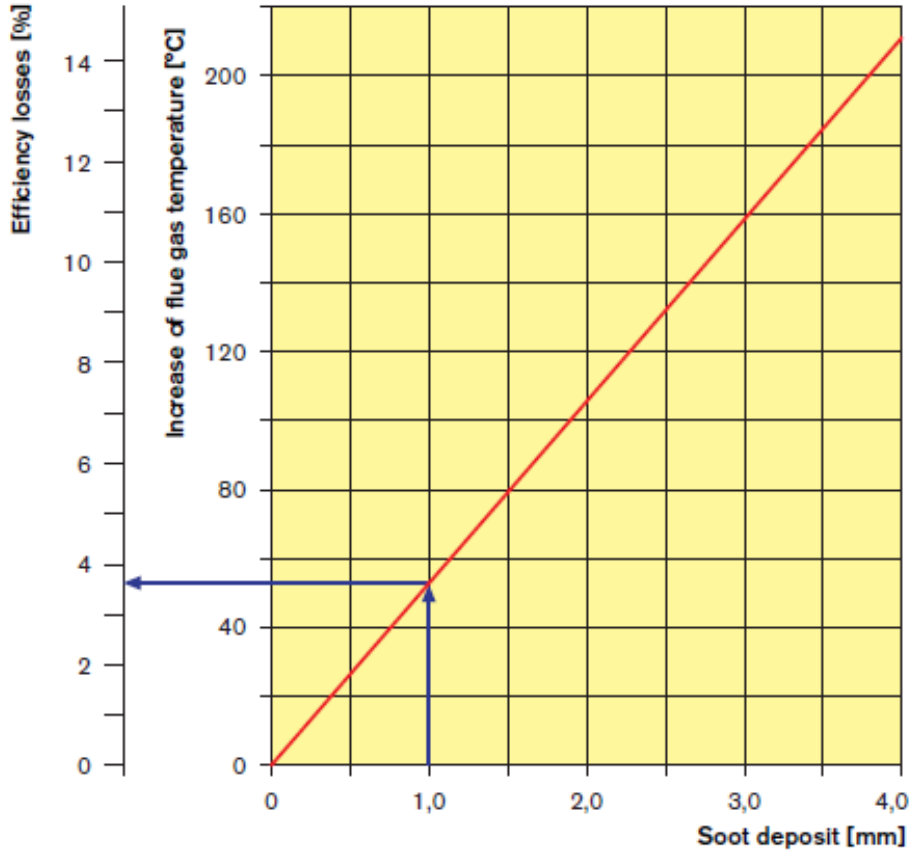
- in poor performance,
- overall efficiency reduction
- and unnecessary spending.



Higher excess air means lower combustion efficiency.

II. Solutions for Industrial Heat Applications

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



II. Solutions for Industrial Heat Applications

2. ecom® Headquarters in Iserlohn, Germany

HUYNH BANG

II. Solutions for Industrial Heat Applications

2. ecom Flue Gas Analyser Range

HUYNH BANG COMPANY

II. Solutions for Industrial Heat Applications

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

HUYNH BANG COMPANY

- Measured values:
  - O_2 (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)
  - NO_2 (0 - 1.000 ppm)
  - SO_2 (0 - 5.000 ppm)
  - CO extended (0 - 10.000 ppm)
  - CO% (0 - 63.000 ppm)
  - C_XH_Y (0 – 4 vol% catalytic)
  - H_2 (0-2.000 ppm)
  - H_2S (0-1.000 ppm)
  - NH_3 (0-1.000 ppm)
  - HCl (0-100 ppm)
- Options (infrared bench):
  - CO% (0 - 63.000 ppm)
  - CO_2 (0 - 20%)
  - C_3H_8 (0 - 2.000 ppm)
  - CH_4 (0 - 30.000 ppm)
  - Differential temperature
  - Soot measurement
- Calculated values:
  - CO_2
  - $CO_{(undiluted)}$
  - Losses
  - Efficiency (0 – 120%)
  - NO_x,
  - mg/m3
  - mg/kWh
  - Excess air
  - Dew point
  - Adjustable O_2 ref.
- 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

HUYNH BANG

ecom-B
small | handy | robust

ecom-EN3
quick | compact | accurate

ecom-J2KNpro *EXPERT*
robust | professional | flexible

ecom-ST
stationanary analyser | autonomous | quasi-continous

ecom-DP
flexible | accurate | performing

ecom-
safe identification of leakages at gas pipes

BW Clip O_2 / CO / H_2S
Maintenance-free
Single gas detector
Android / iOS compatible

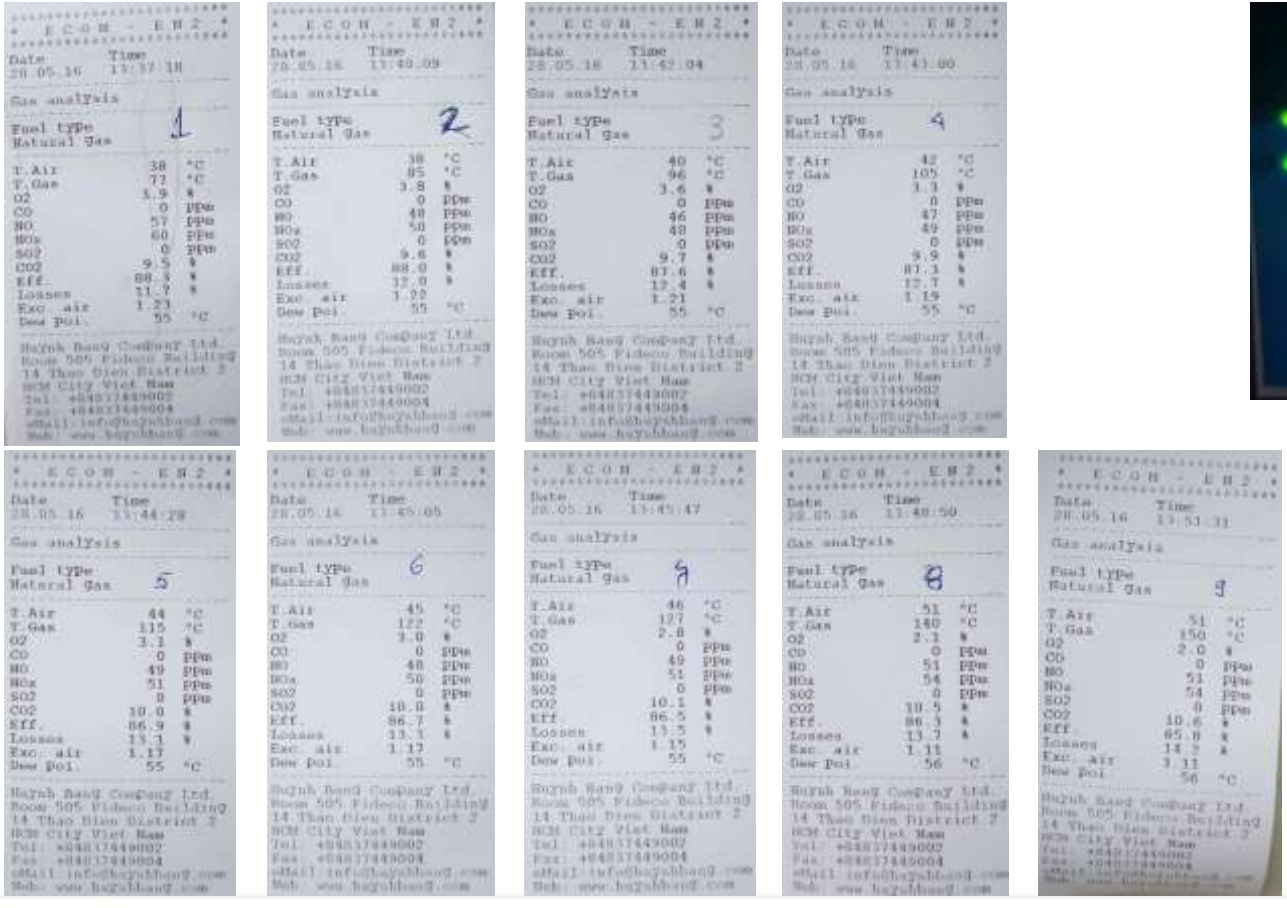
II. Solutions for Industrial Heat Applications

2. ecom: Unique Selling Points ecom® Products

HUYNH BANG

II. Solutions for Industrial Heat Applications

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



Flue gas analyzer display in operation

Pressure Test results

II. Solutions for Industrial Heat Applications

2. ecom flue gas analysers in the field

HUYNH BANG

II. Solutions for Industrial Heat Applications

2. ecom proven use in the field.

HUYNH BANG

II. Solutions for Industrial Heat Applications

2. ecom instruments critical for burner commissioning and troubleshooting

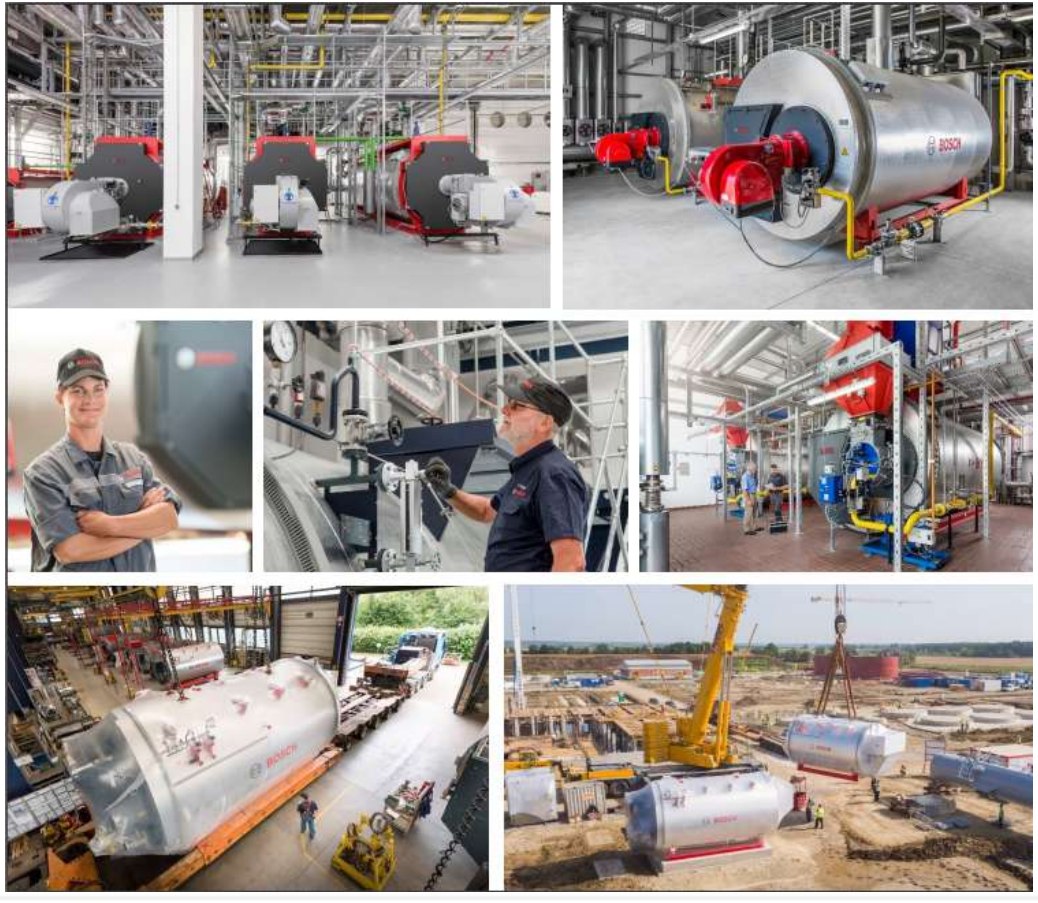
HUYNH BANG

II. Solutions for Industrial Heat Applications

3. Bosch Industrial Boilers located in Gunzenhausen (Germany)

II. Solutions for Industrial Heat Applications

3. Bosch Industrial Boilers



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

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

Delivery in more than **140** countries worldwide

II. Solutions for Industrial Heat Applications

3. Bosch Industrial Boilers Portfolio

HUYNH BANG

Industrial boilers

Heating / Hot water

	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
	biofuel ready, H_2 ready	biofuel ready, H_2 ready	biofuel ready, H_2 ready	biofuel ready, H_2 ready

Steam / Process heat

	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
	biofuel ready, H_2 ready	biofuel ready, H_2 ready	100% electric	biofuel ready, H_2 ready, Hybrid ready	biofuel ready, H_2 ready, Hybrid ready	

Efficiency

Waste heat recovery boilers
for steam / hot water

Waste heat recovery steam boiler

3-pass boiler without burner

4-pass boiler with burner

Energy efficiency
Recovery & utilisation

+2.5% +7%

Components

Hydraulics

e.g. pump modules

Modules for:

Water

+2%

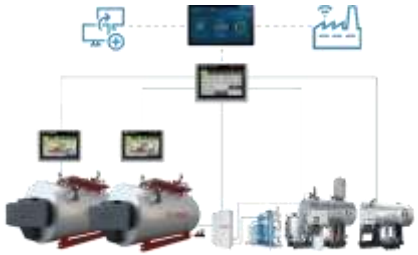
Condensate

+12%

Steam

Fuel

Controls



Intelligent control technology:
Boiler controls and boiler system controls
Efficiency assistant and remote access

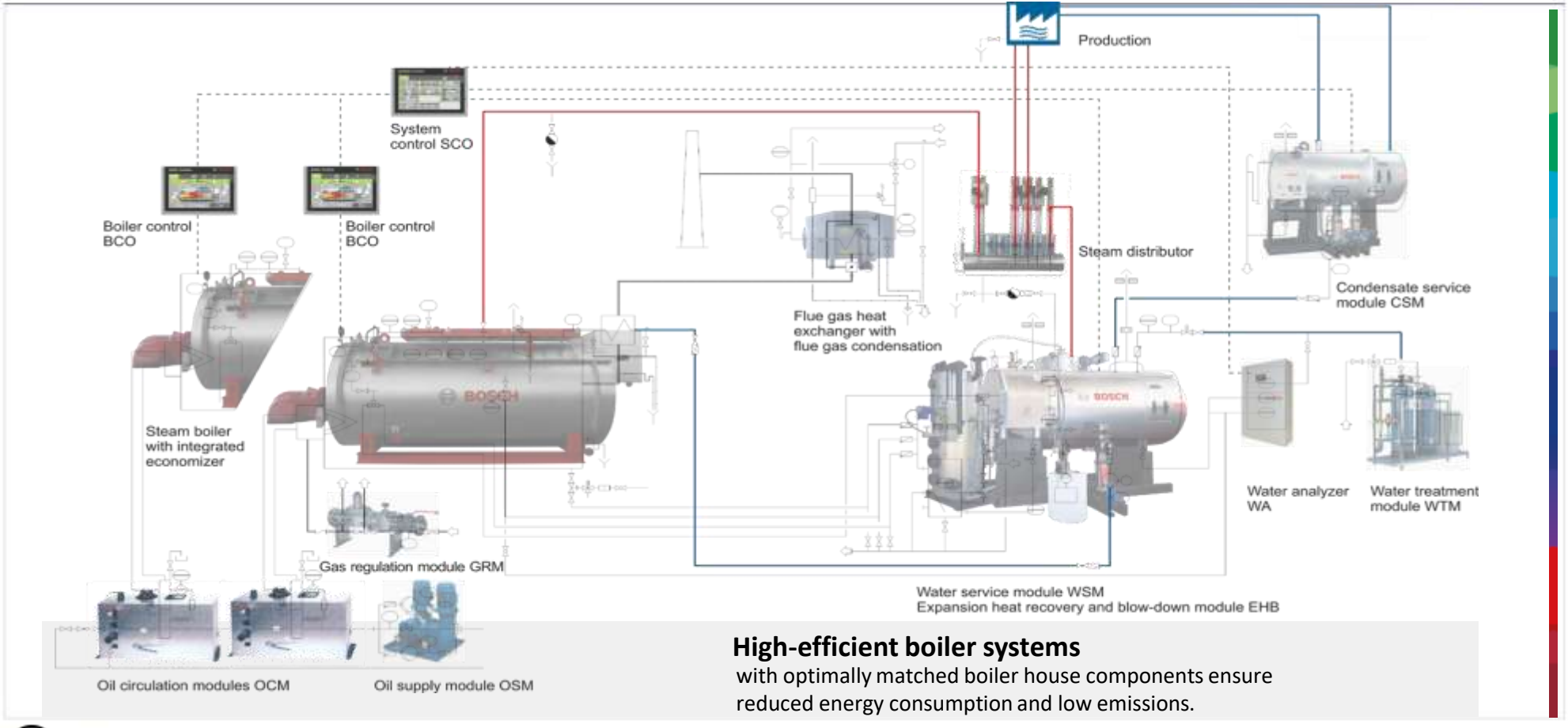
Modernisation and service

24/7 service worldwide
From commissioning and maintenance to expert training

Upgrade of existing plants
Project planning & modular system technology

II. Solutions for Industrial Heat Applications

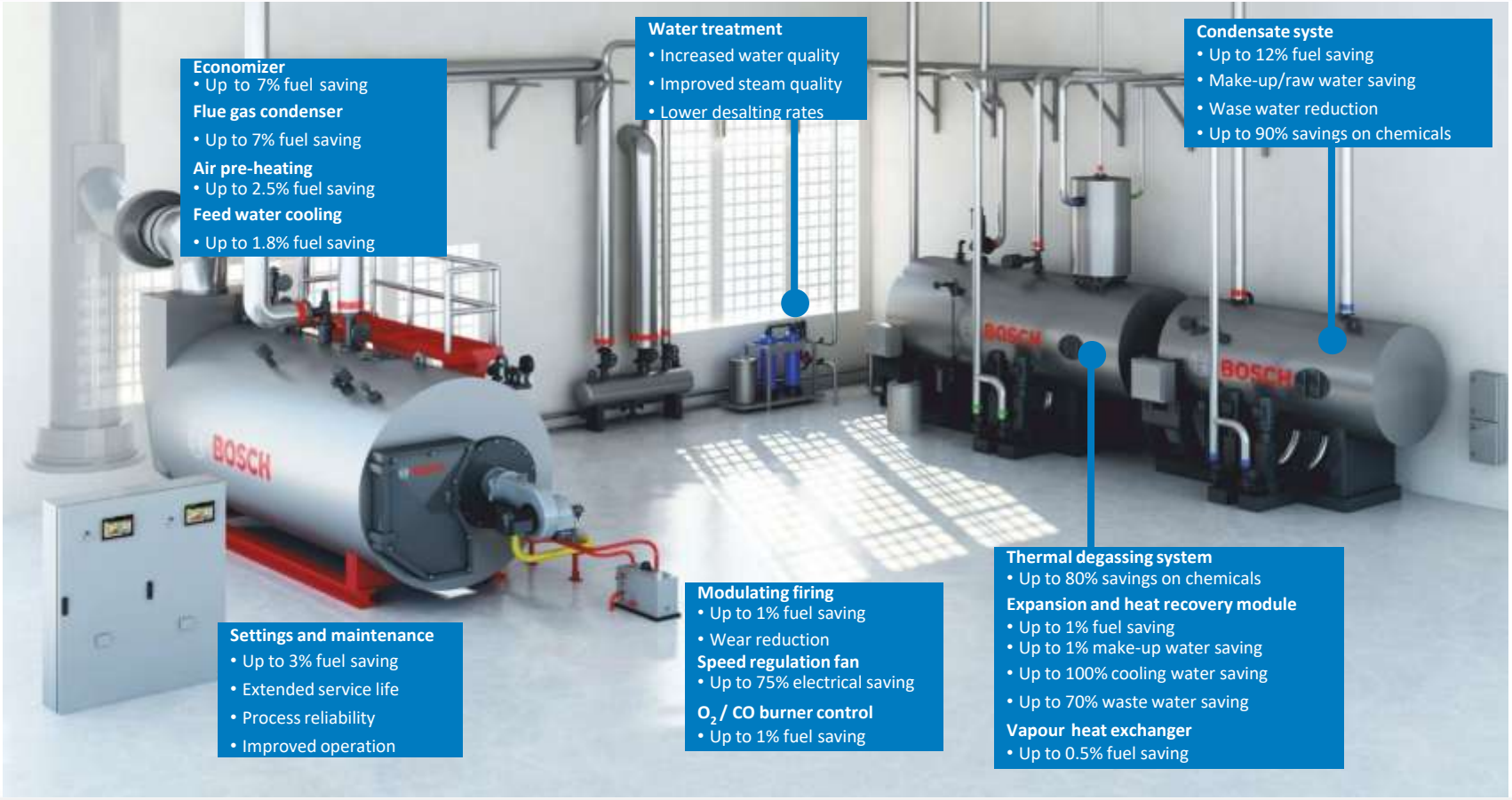
3. Bosch high-efficient Boiler Systems



High-efficient boiler systems
with optimally matched boiler house components ensure reduced energy consumption and low emissions.

II. Solutions for Industrial Heat Applications

3. Bosch boiler house components, efficicency components and controls



II. Solutions for Industrial Heat Applications

3. Bosch universial 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

HUYNH BANG COMPANY

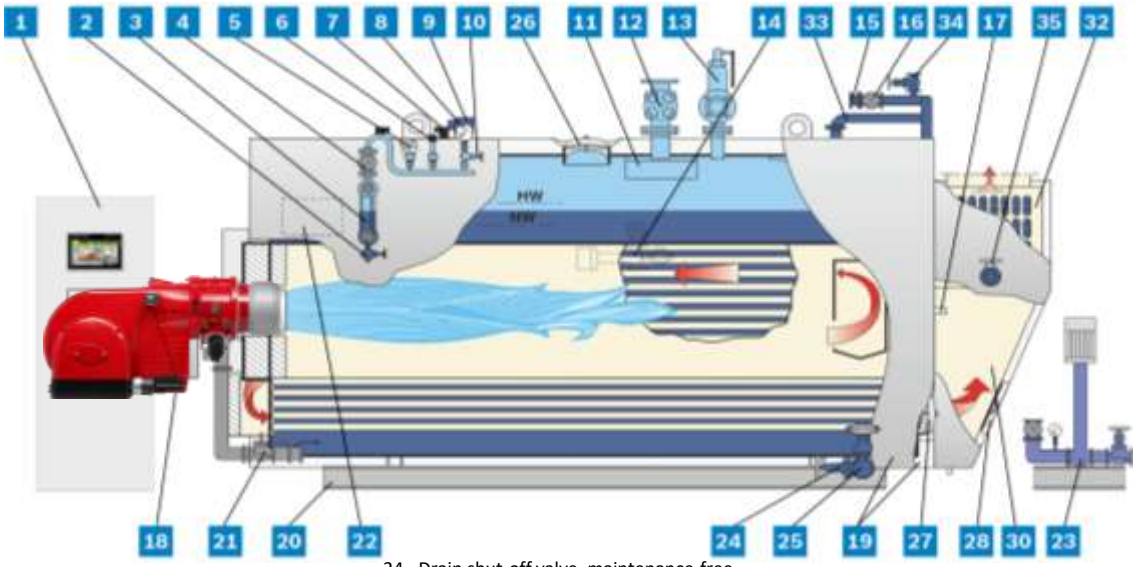
- Very high efficiency in all output ratings for low running costs and emissions
- Complete system with customer-specific equipment
- Future-proof technology with options for hydrogen, biogas and bio-oil
- Extremely well proven design “Made in Germany”, highly durable and easy to maintain
- Consistent 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

HUYNH BANG



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

HUYNH BANG

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)

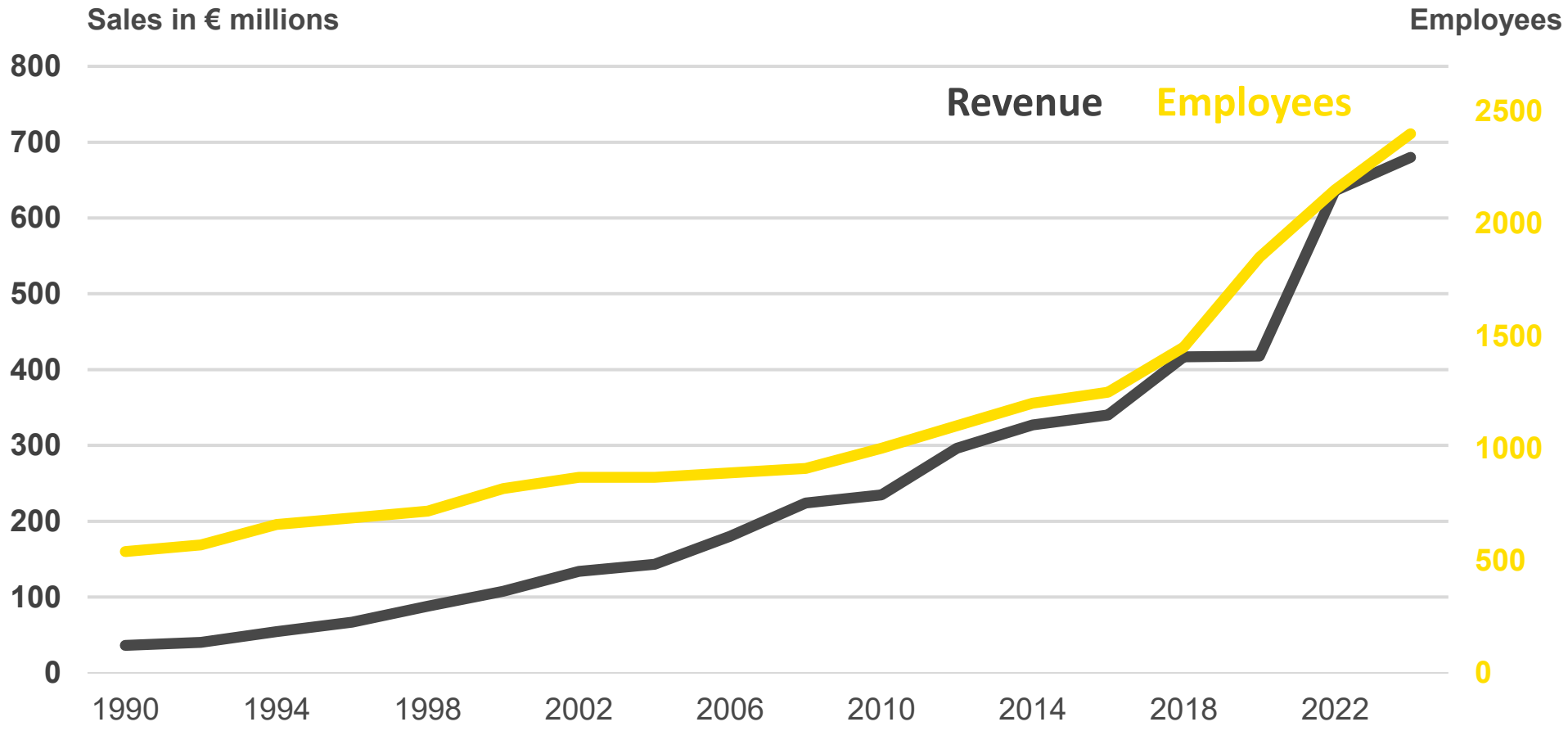
Around 25,000 developed films per year

II. Solutions for Measurement & Automation Applications

1. VEGA Headquarters in Schiltach, Germany

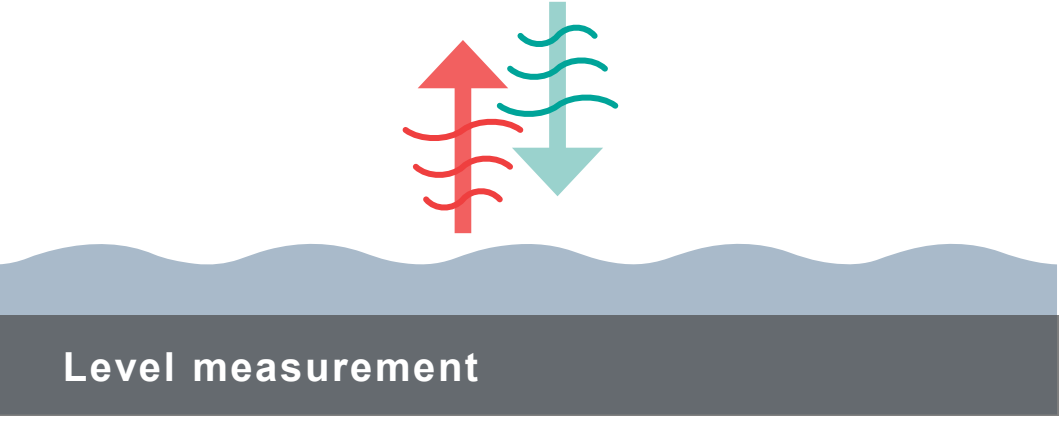
HUYNH BANG

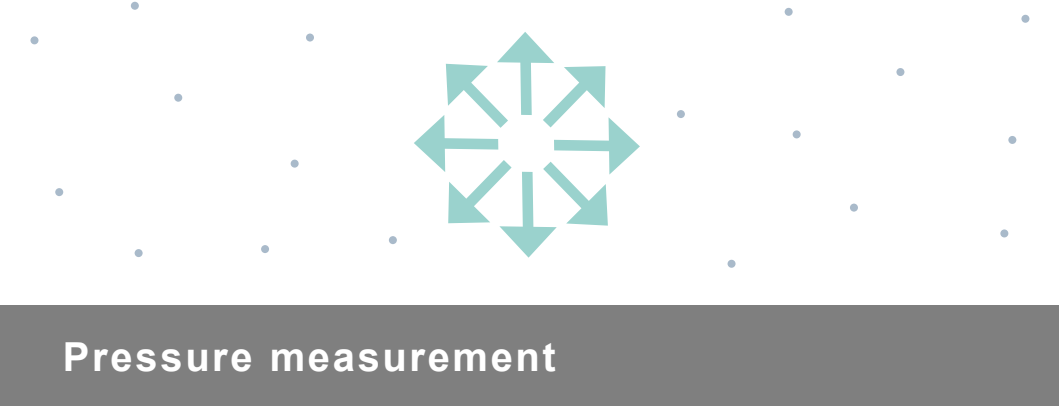
Focussed on long-term development



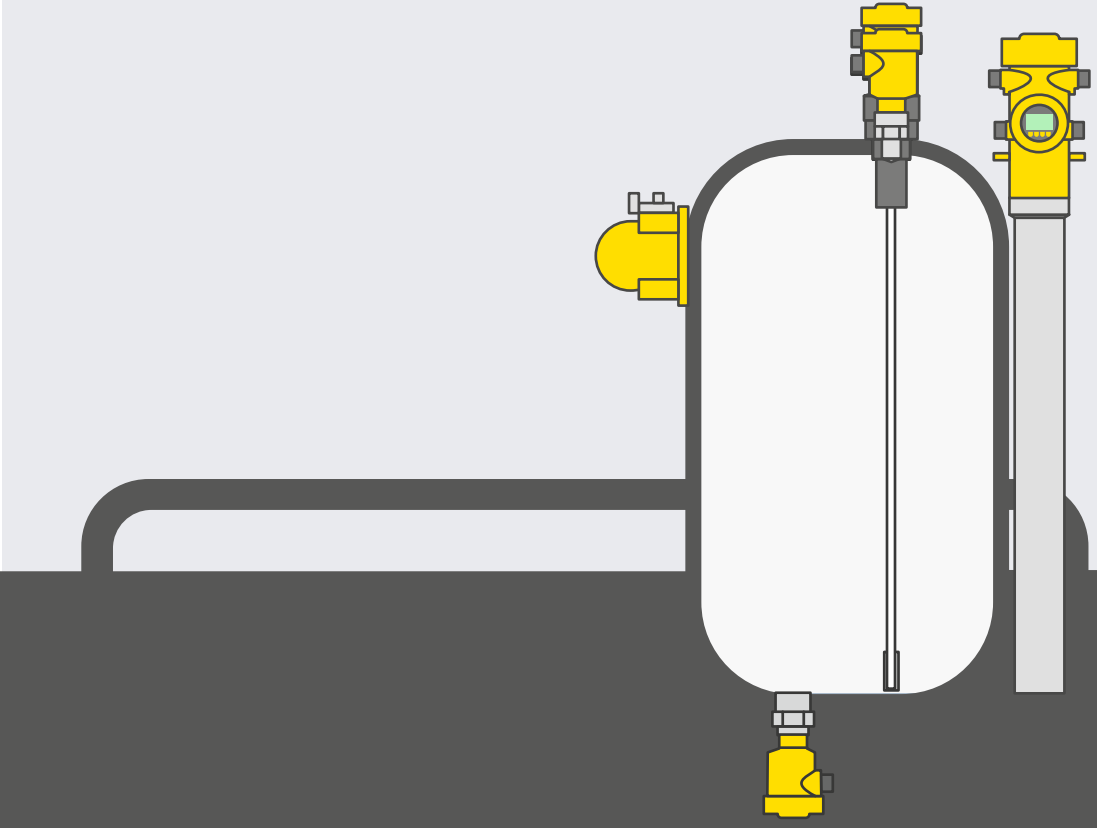
Product portfolio

We produce measurement





Continuous level measurement



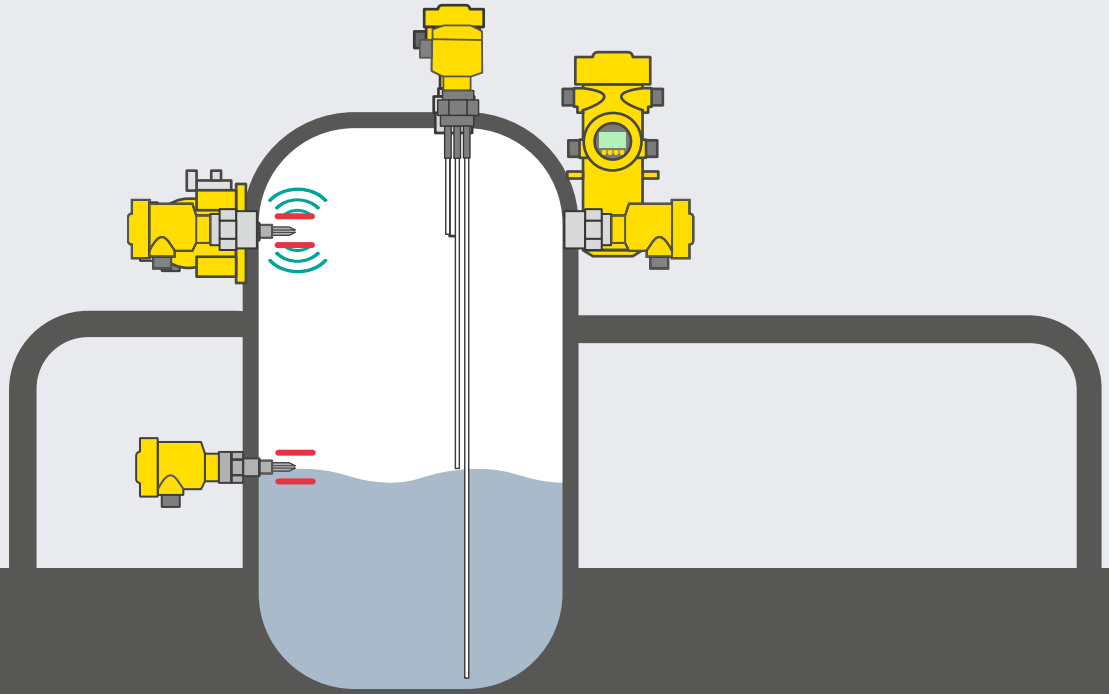
THE MEASUREMENT METHODS

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

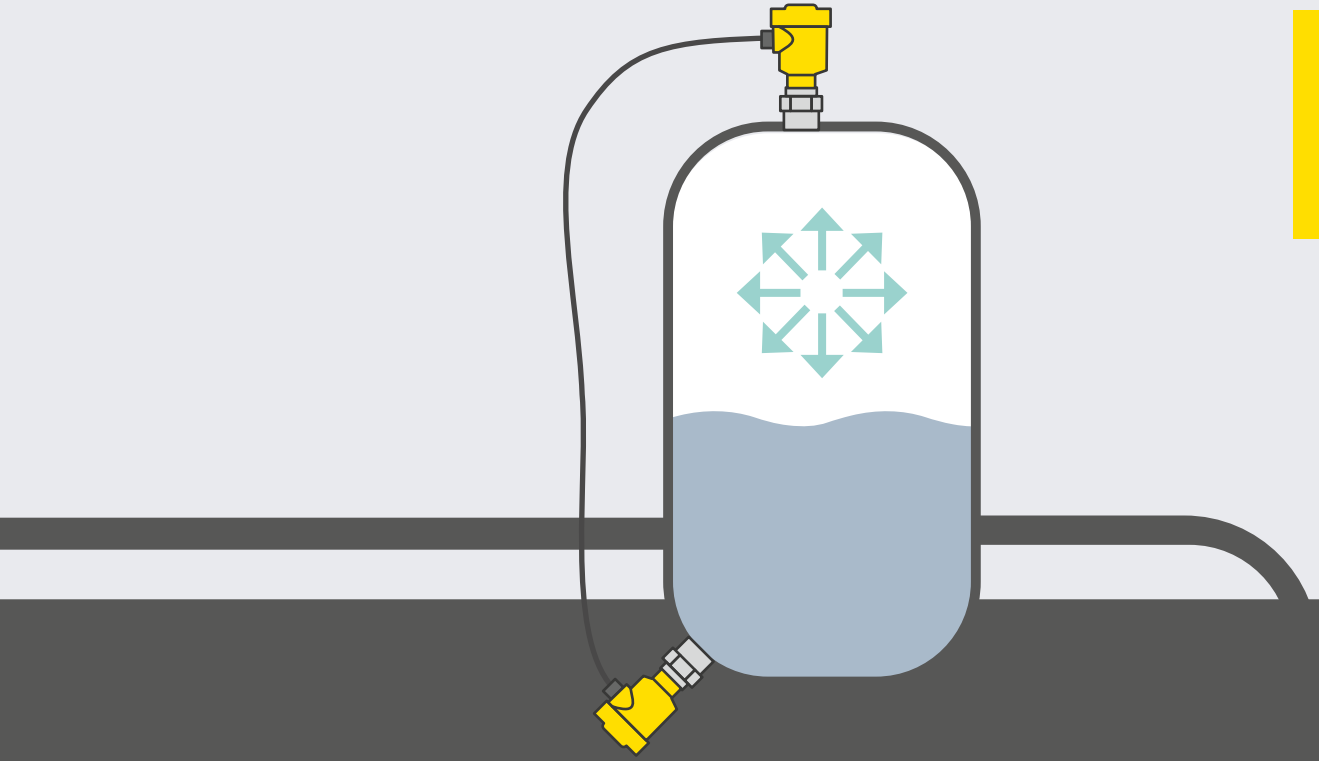
Safe level detection

THE MEASUREMENT METHODS

- Vibration
- Capacitive
- Radiometric
- Conductive
- Radar



Universal pressure measurement

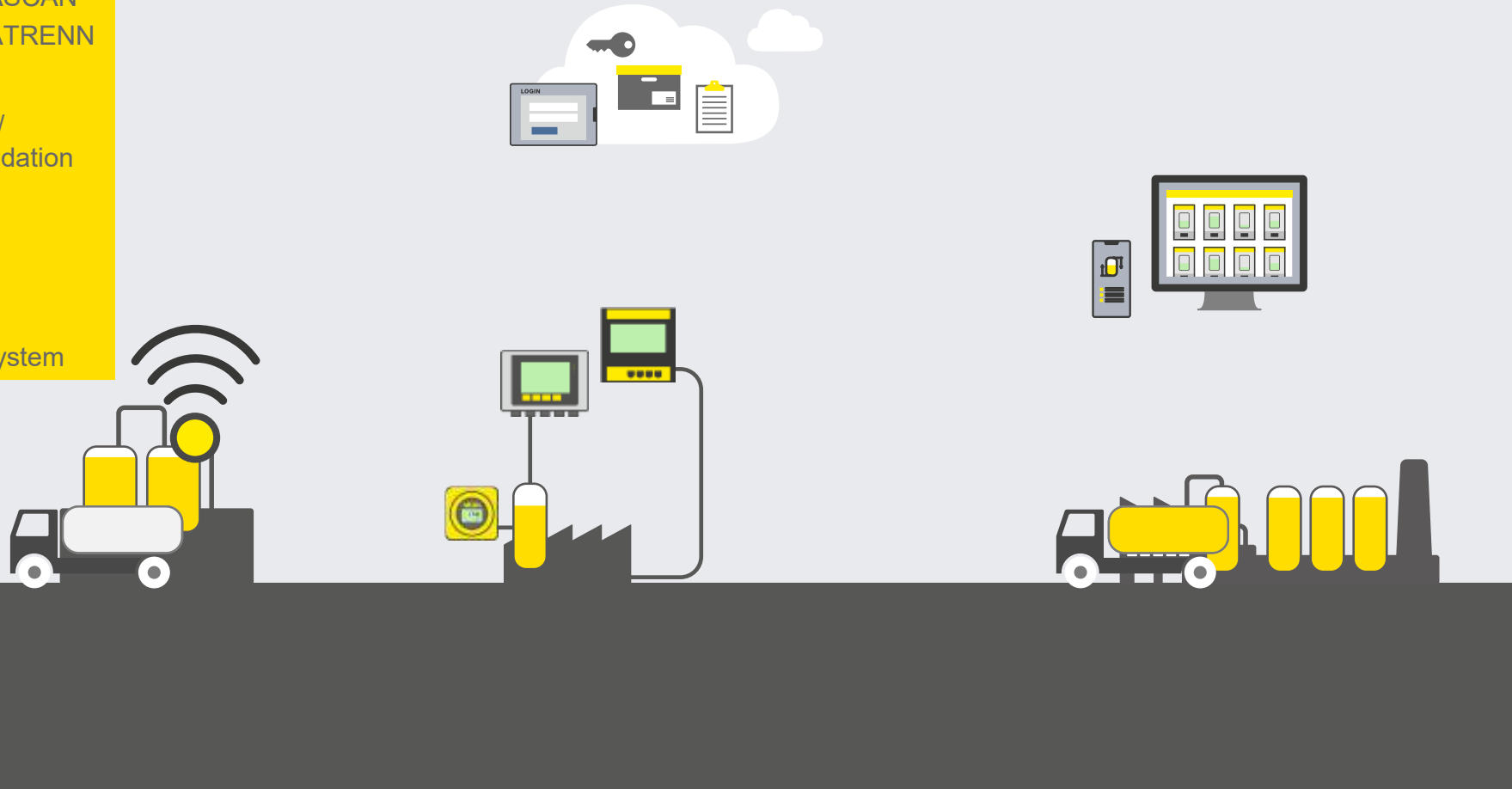


THE MEASUREMENT METHODS

- Process pressure
- Hydrostatic
- Differential pressure

Smart communication

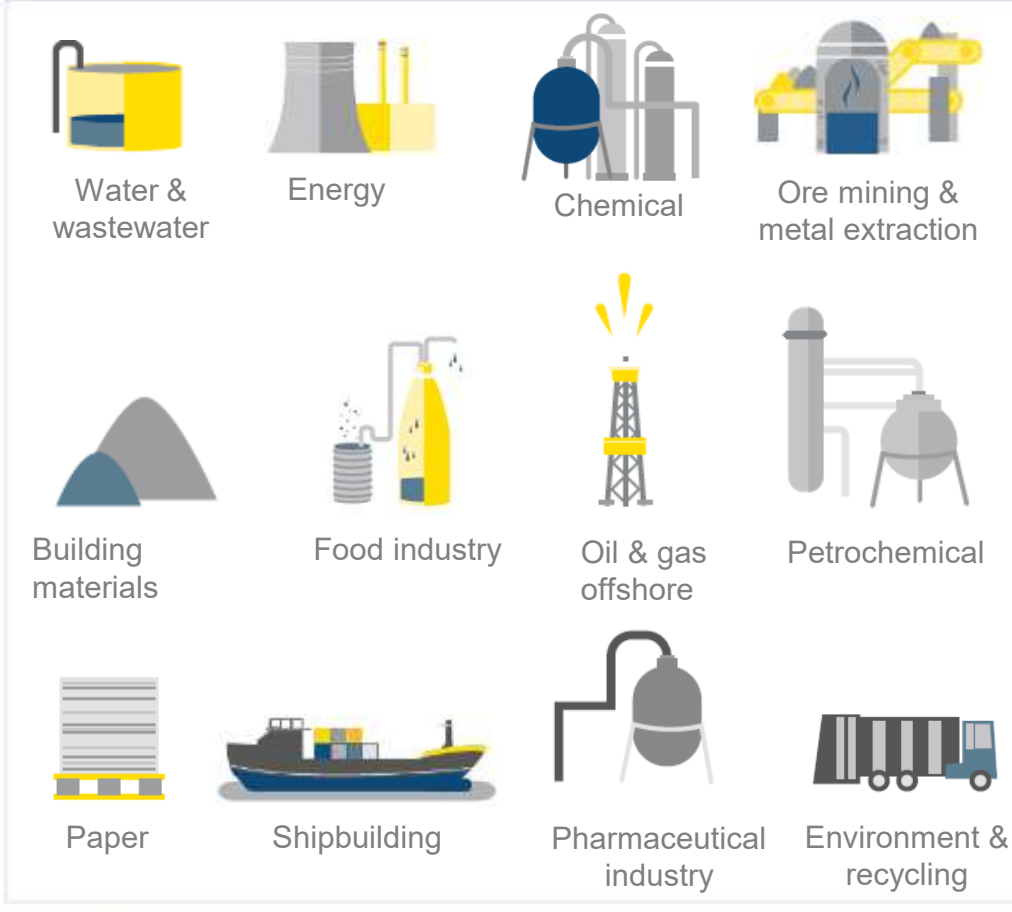
- VEGAMET / VEGASCAN
- VEGATOR / VEGATRENN
- VEGADIS
- 4…20 mA / HART / Profibus PA / Foundation Fieldbus
- Ethernet
- Bluetooth
- NB-IoT / LoRa
- VEGA Inventory System



Industrial sectors

II. Solutions for Measurement & Automation Applications

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



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

HUYNH BANG

II. Solutions for Measurement & Automation Applications

1. VEGA references in Vietnam

HUYNH BANG

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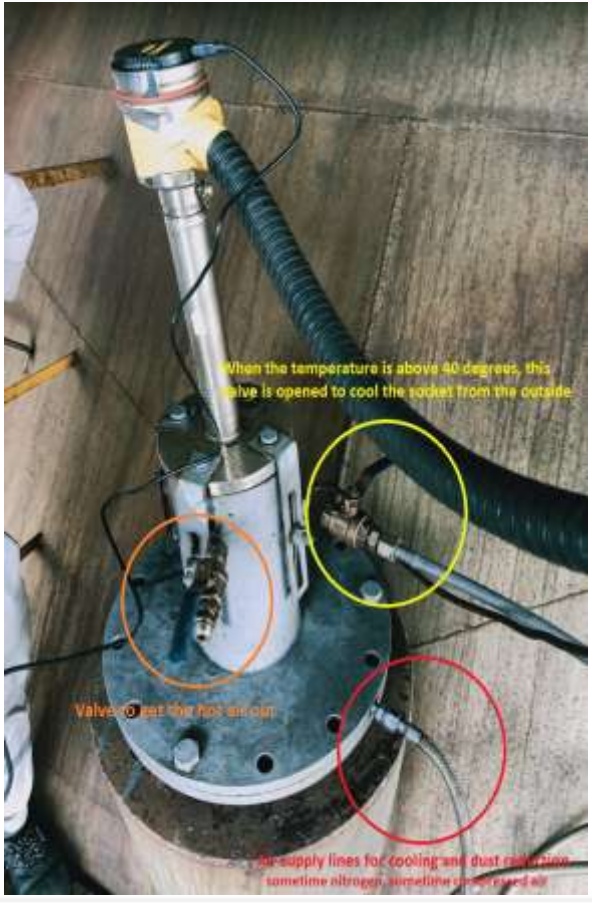
HUYNH BANG



II. Solutions for Measurement & Automation Applications

1. VEGA references in Vietnam

HUYNH BANG

II. Solutions for Measurement & Automation Applications

1. VEGA references in Vietnam

HUYNH BANG

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1. VEGA references in Vietnam

HUYNH BANG

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

HUYNH BANG

II. Solutions for Measurement & Automation Applications

2. JUMO Sensor Solutions - Precision in Measurement

HUYNH BANG

Temperature | Liquid analysis | Pressure | Level | Flow | Humidity

II. Solutions for Measurement & Automation Applications

2. JUMO Automation Solutions

HUYNH BANG

Control

Recording

Automation

Monitoring

II. Solutions for Measurement & Automation Applications

2. JUMO references

HUYNH BANG

II. Solutions for Measurement & Automation Applications

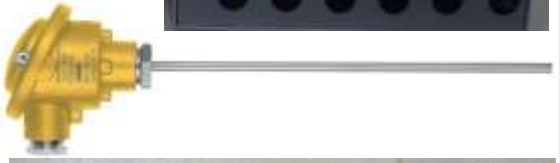
2. JUMO references

HUYNH BANG COMPANY

II. Solutions for Measurement & Automation Applications

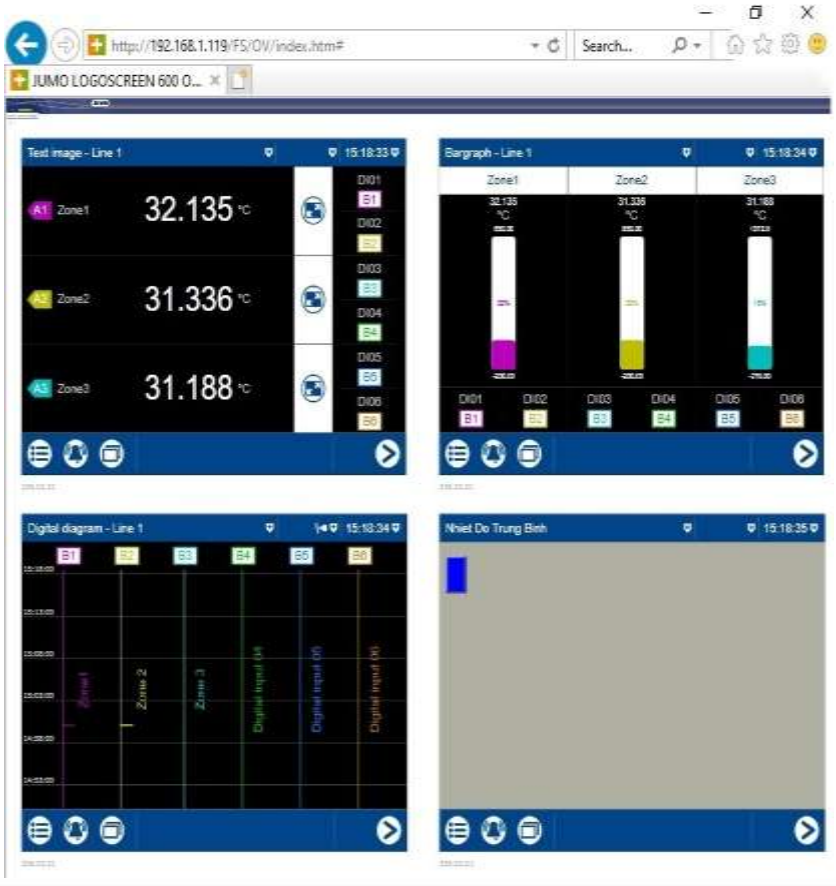
2. JUMO references

HUYNH BANG



II. Solutions for Measurement & Automation Applications

2. JUMO references



II. Solutions for Measurement & Automation Applications

2. JUMO references

HUYNH BANG

II. Solutions for Measurement & Automation Applications

3. Optris: Non-contact infrared Temperature Measurement

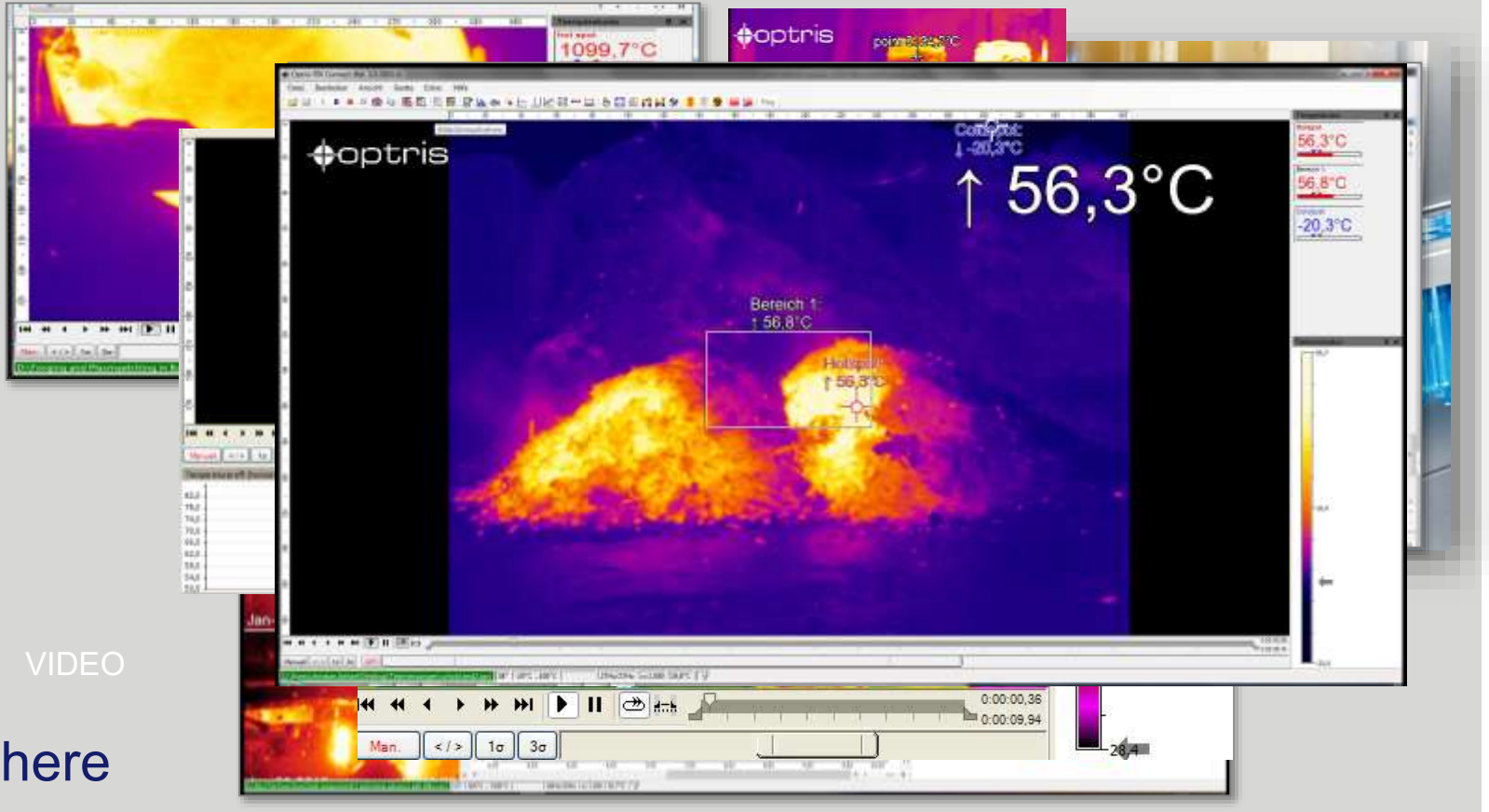
HUYNH BANG

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

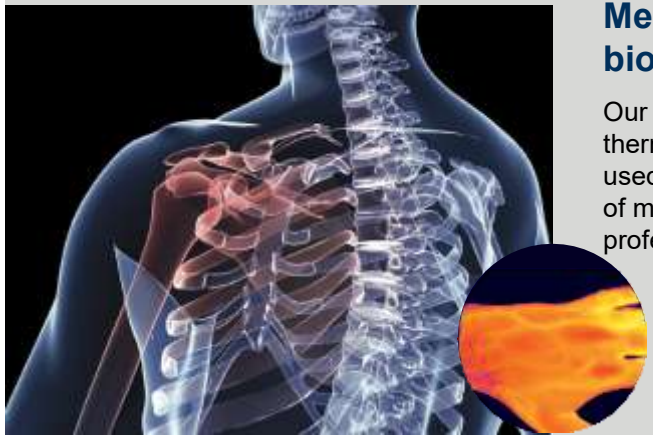
PROCESS OPTIMIZATION VIA TEMPERATURE MONITORING

Semiconductor industry

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

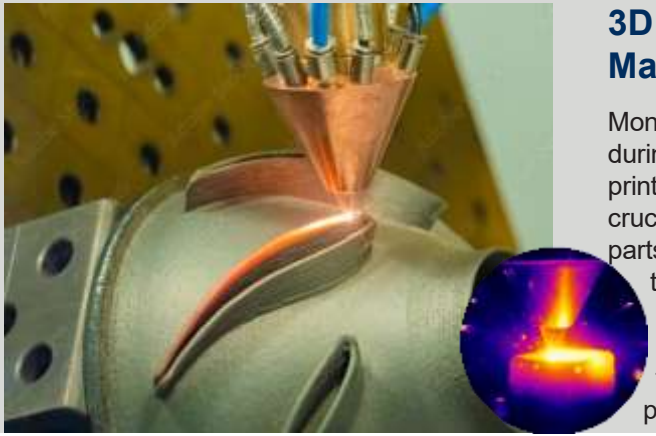
Plastics industry

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.

Product portfolio

- Infrared cameras

- Infrared thermometers

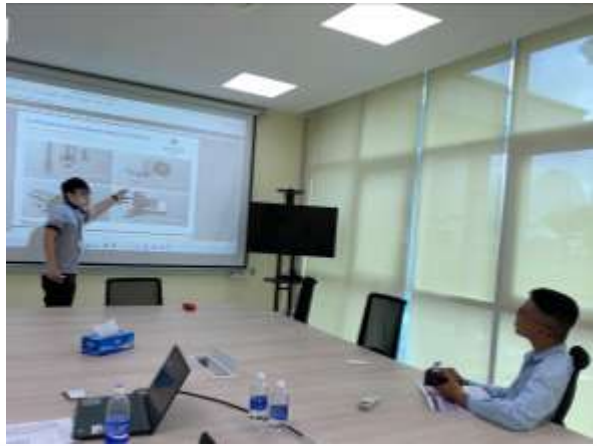
- Accessories

- Software/ Apps

II. Solutions for Measurement & Automation Applications

3. Optris: Non-contact infrared Temperature Measurement

HUYNH BANG



II. Solutions for Measurement & Automation Applications

3. Optris: Non-contact infrared Temperature Measurement

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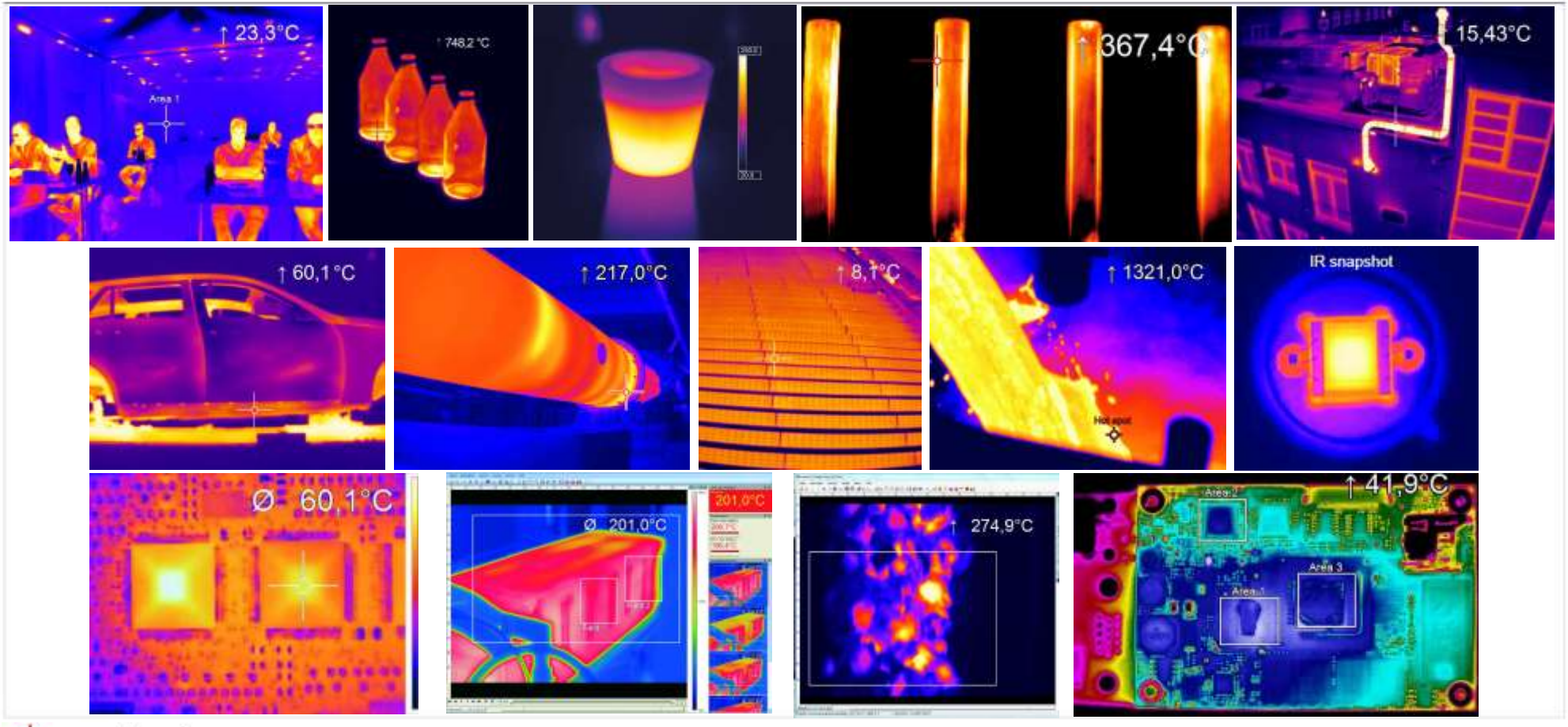
II. Solutions for Measurement & Automation Applications

3. Optris thermal images



II. Solutions for Measurement & Automation Applications

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

HUYNH BANG COMPANY

made in Germany

II. Solutions for Measurement & Automation Applications

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

HUYNH BANG COMPANY

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

4. KEM references

HUYNH BANG

II. Solutions for Measurement & Automation Applications

4. KEM references

II. Solutions for Measurement & Automation Applications

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

HUYNH BANG

Vögtlin Product Family's

Smart MFM/MFC

Compact MFM

Pin AA

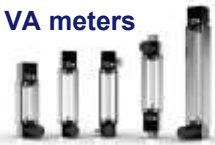
Industrial MFM/MFC Ex / IP67

Hi Flow – DP d·flux

Smarttrak MFM/MFC

OEM Solutions

VA meters



Precision Needle Valves

Representative Applications

Life Science	Bio industry Vial manufacturing
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

COMPANY

Gas type

Air	Air	D_2	Deuterium
N_2	Nitrogen	C_2H_6	Ethane
Ar	Argon	C_2H_4	Ethene, Ethylene
He	Helium	C_2F_6	Hexafluoromethane, Freon 116
CO_2	Carbon dioxide	$CHClF_2$	*Chlorodifluoromethane, Freon-22*
CO	Carbon monoxide	Kr	Krypton
CH_4	Methane	N_2O	Nitrous oxide
C_3H_8	Propane	Ne	Neon
H_2	Hydrogen	C_3H_6	Propene, propylene
C_4H_6	1,3-Butadiene	SF_6	Sulfur hexafluoride
C_4H_{10}	Butane	CF_4	Tetrafluoromethane, Freon-14

vögtlin instruments

MFM – Mass Flow Meter
MFC – Mass Flow Controller

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

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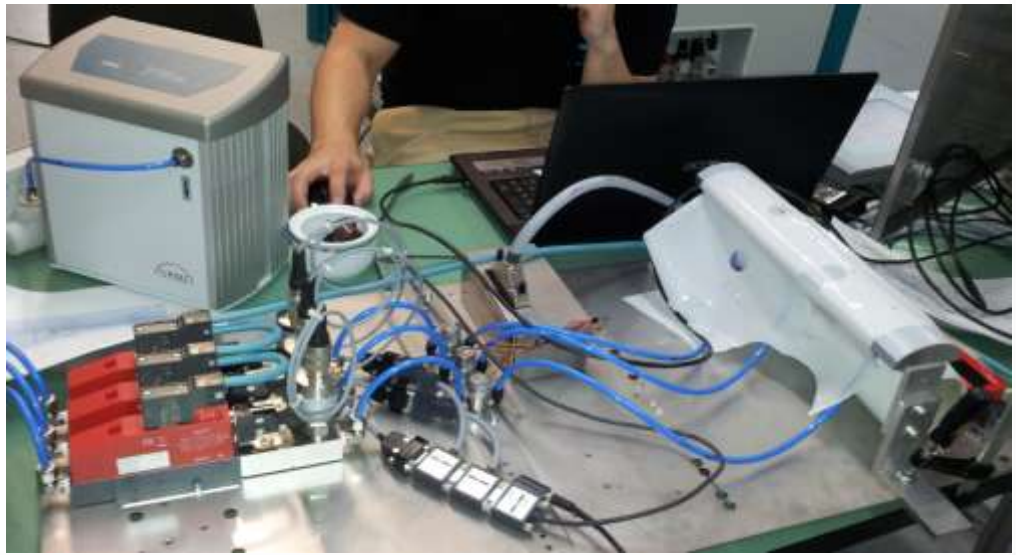
Permeability measurements of concrete

Permeability test of membranes

Test on valves of coffee packaging



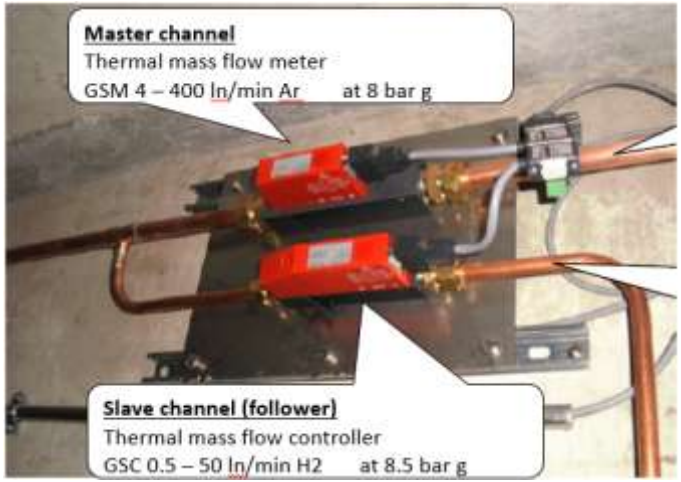
Calibration device for reviewing test leaks

II. Solutions for Measurement & Automation Applications

5. Vögtlin Instruments GmbH - Applications

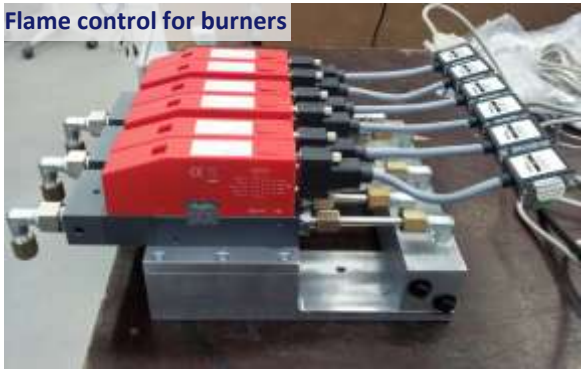
HUYNH BANG

Inline gas mixer

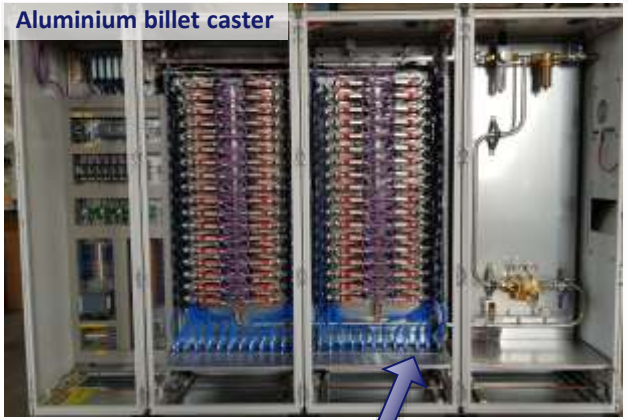


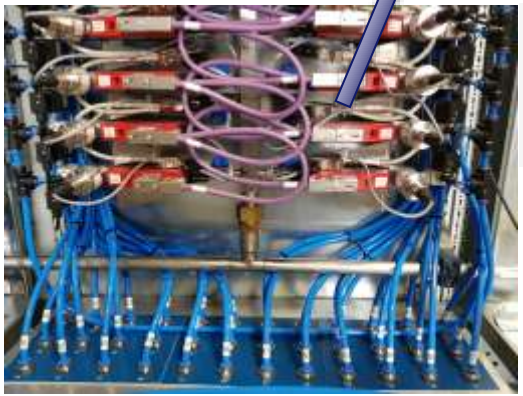
Mixing block GZB / GRB

Flame control for burners



Aluminium billet caster





Alumi-
nium
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

meister

IMPRINT DATA PROTECTION

- 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*

advantages of using Meister flowmeters

meister

INDUSTRIAL FLOW

Your Partner for Industrial Flow Measurement

II. Solutions for Measurement & Automation Applications

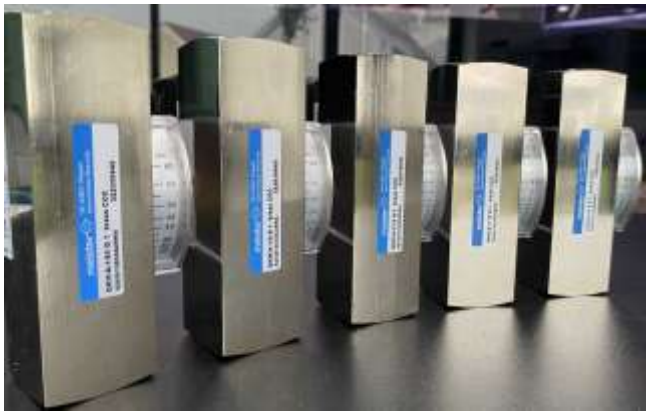
6. Meister Variable Area Flow Meters

HUYNH BANG COMPANY

II. Solutions for Measurement & Automation Applications

6. Meister Variable Area Flow Meters

HUYNH BANG COMPANY



II. Solutions for Measurement & Automation Applications

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

HUYNH BANG

SCHMIDT®- Flow sensors measure:

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

HUYNH BANG COMPANY

For Cleanrooms in

- Pharmaceutical Industry
- Food Industry
- Semiconductor Industry

For the Application in

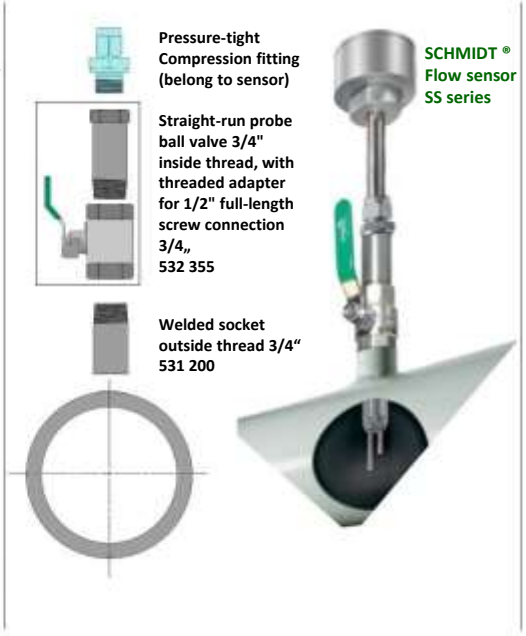
- Laminar-flow monitoring
- Room-overflow monitoring
- Filter monitoring

II. Solutions for Measurement & Automation Applications

7. SCHMIDT Technology – Mounting variations

HUYNH BANG COMPANY

Variation #1 –
Direct mounting



Variation #2 –
Mounting on ball valve

Variation #3 –
Mounting into probe balll 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

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

Connecting cable, LED display &
pipe assembly kit

II. Solutions for Measurement & Automation Applications

7. SCHMIDT Technology references

II. Solutions for Measurement & Automation Applications

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

HUYNH BANG COMPANY

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

HUYNH BANG COMPANY

UltraTemp Camera

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

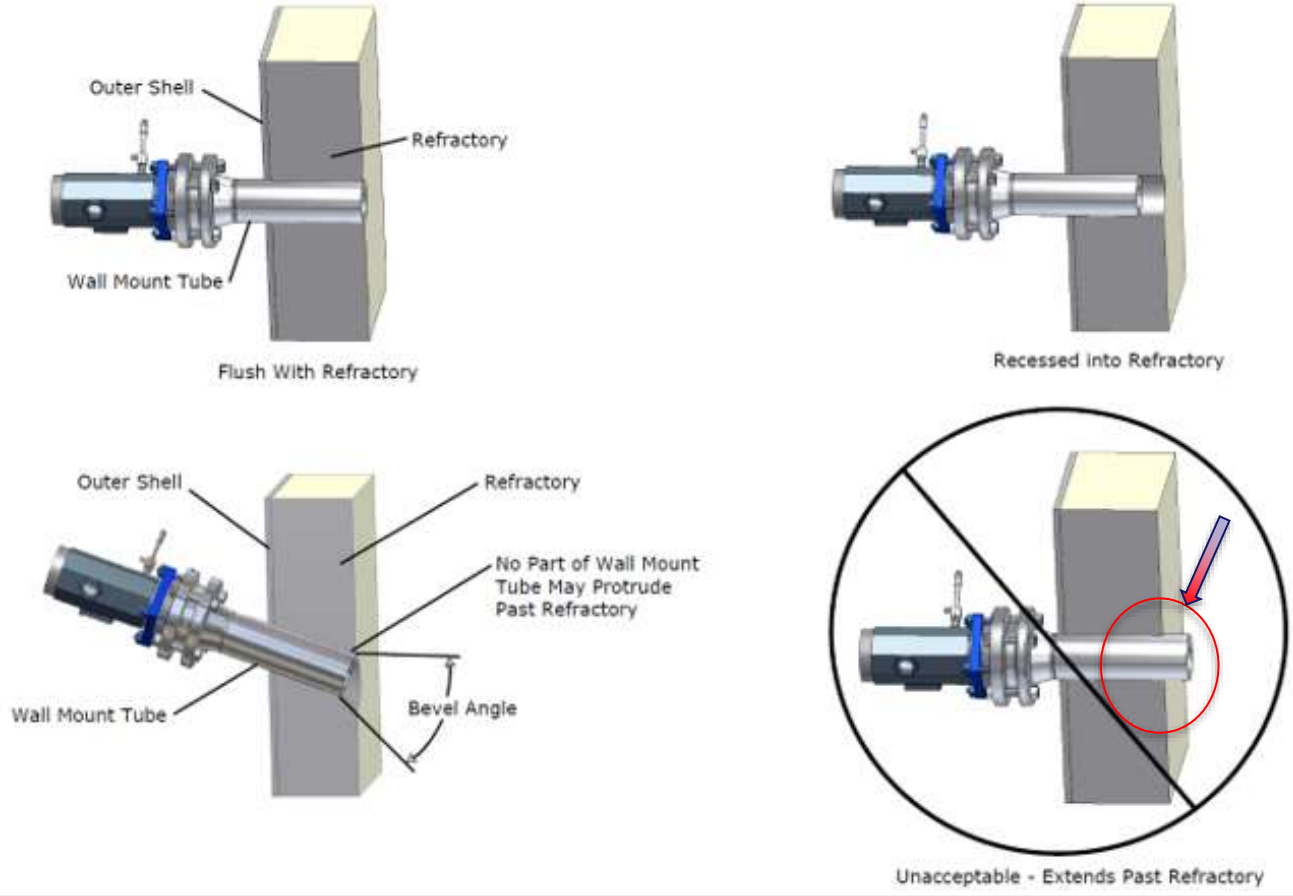
ExtremeTemp Camera

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

II. Solutions for Measurement & Automation Applications

9. CANTY High Temperature Camera Systems

HUYNH BANG

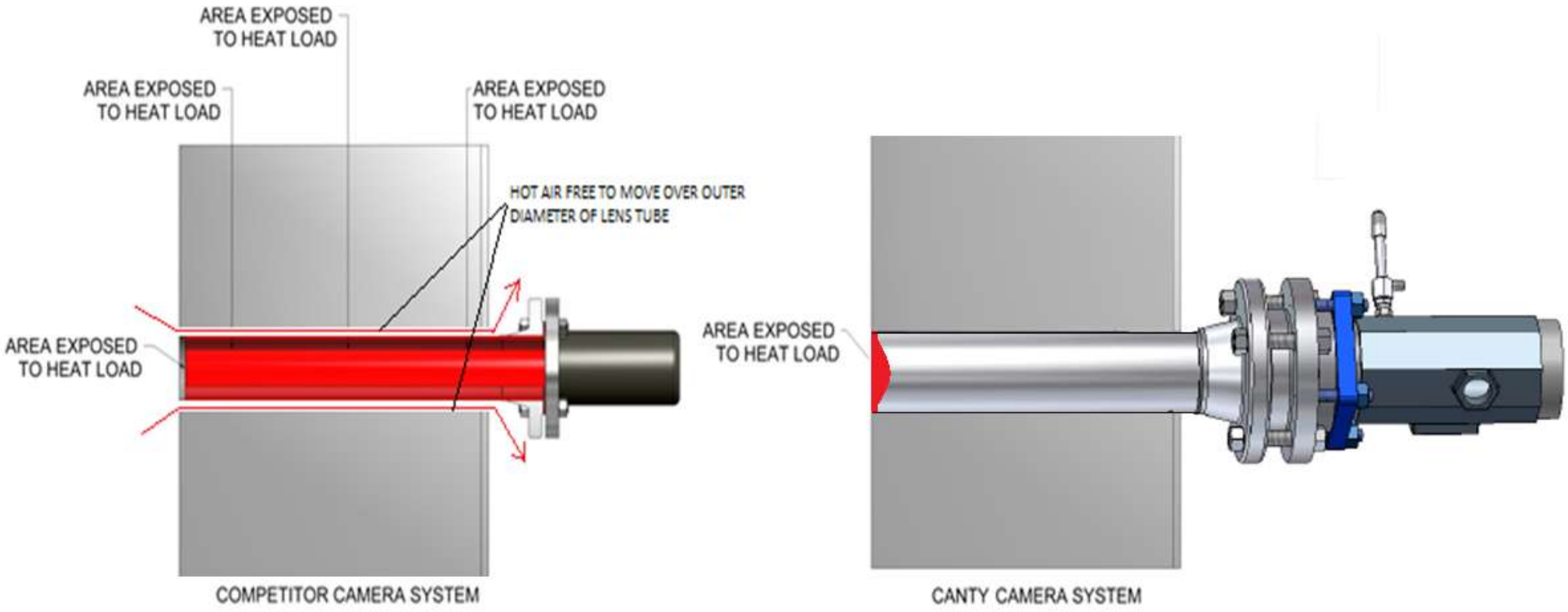


CANTY PROCESS TECHNOLOGY

II. Solutions for Measurement & Automation Applications

9. CANTY High Temperature Camera Systems

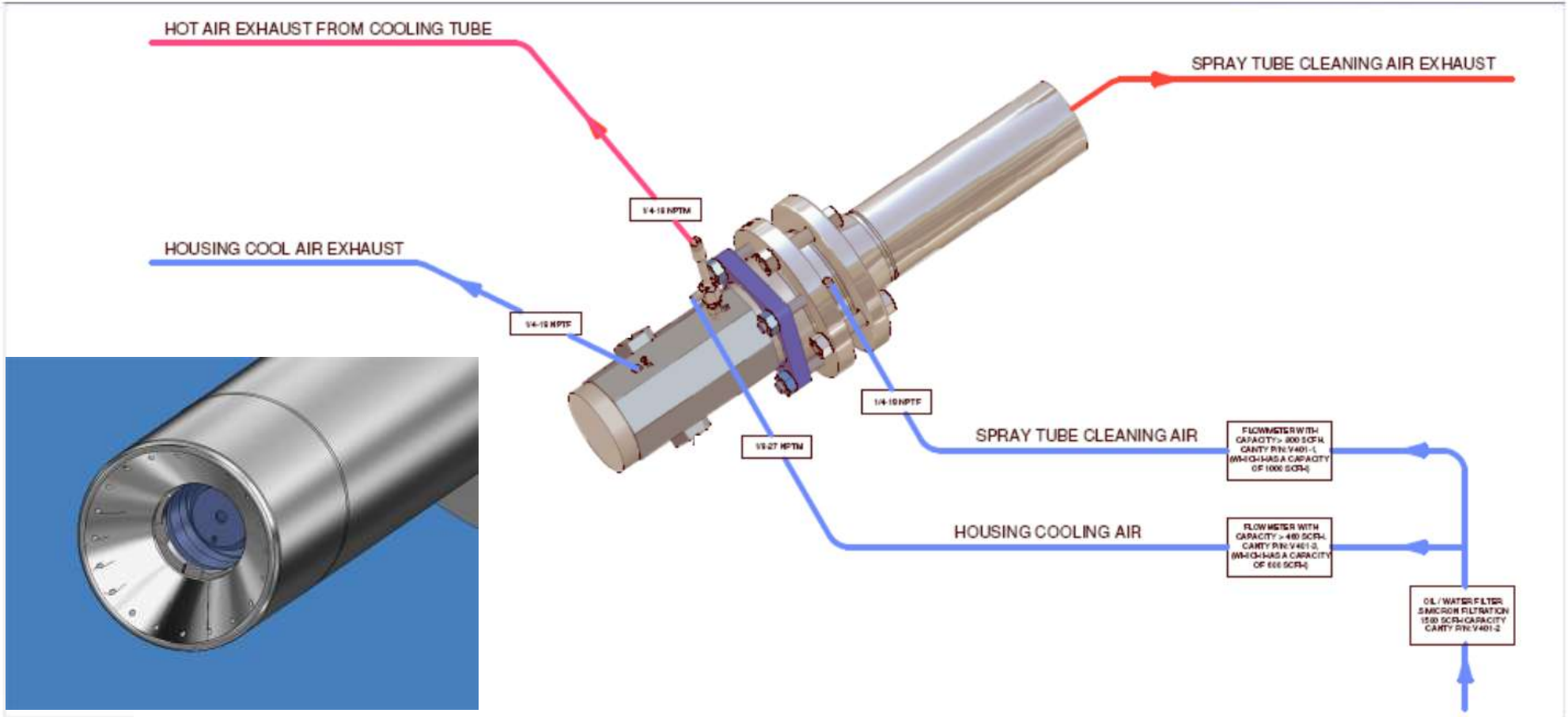
HUYNH BANG COMPANY



II. Solutions for Measurement & Automation Applications

9. CANTY High Temperature Camera Cleaning / Cooling Air Layout

HUYNH BANG



II. Solutions for Measurement & Automation Applications

9. CANTY High Temperature Camera Systems

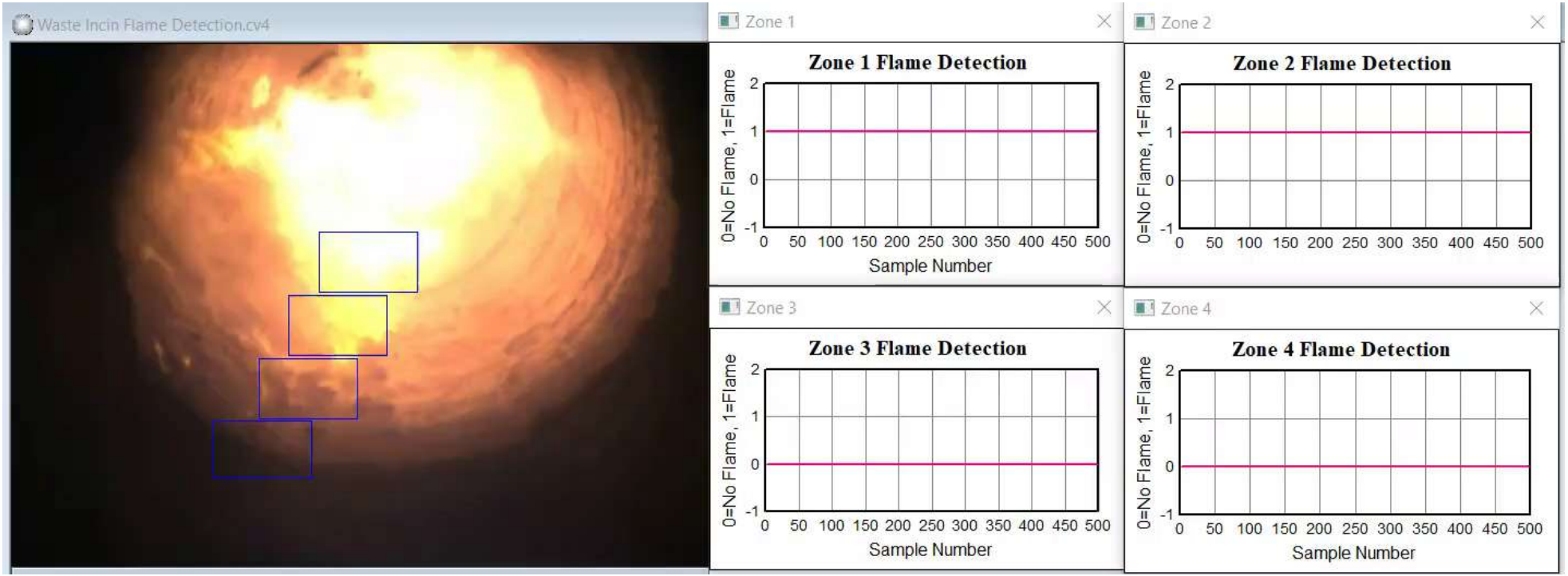
HUYNH BANG

II. Solutions for Measurement & Automation Applications

9. CANTY High Temperature Camera Flame Detection

HUYNH BANG COMPANY

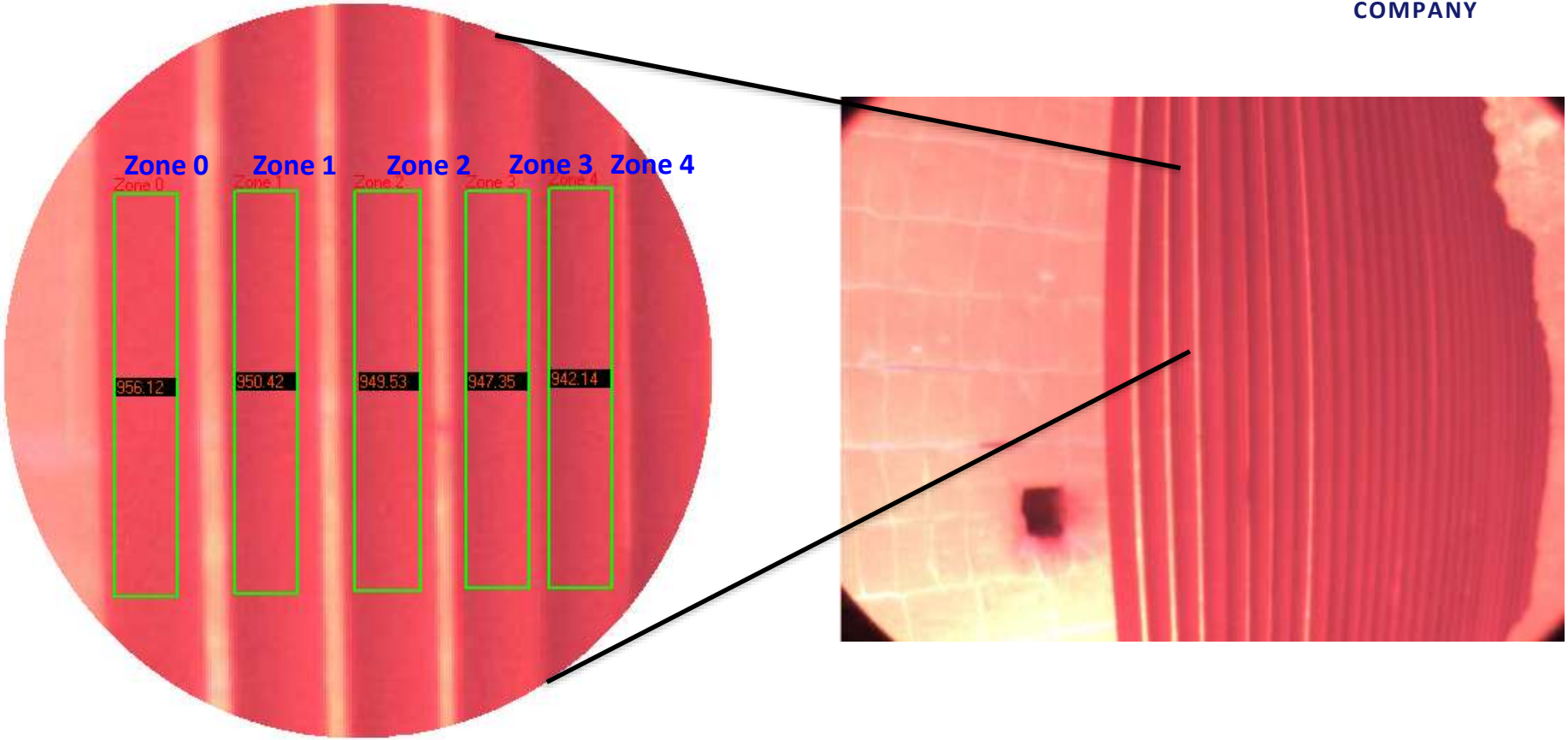
Video - flame detection in waste incinerator



II. Solutions for Measurement & Automation Applications

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

HUYNH BANG COMPANY



II. Solutions for Measurement & Automation Applications

9. CANTY Equipment for Dry Particle Size & Shape

HUYNH BANG

II. Solutions for Measurement & Automation Applications

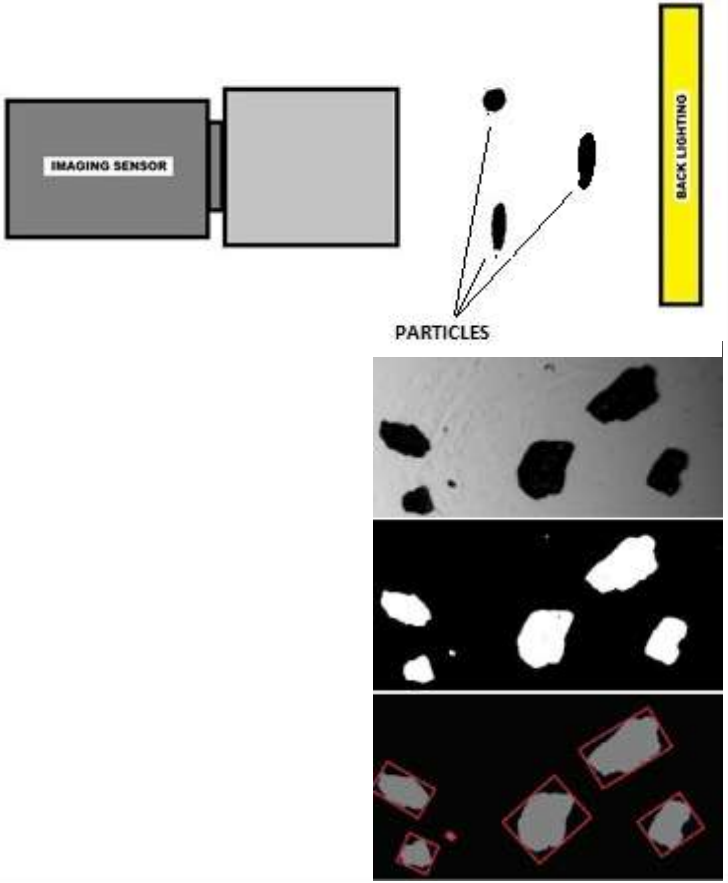
9. CANTY Vision Based Particle Size Analysis – Fundamental Principle

HUYNH BANG

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

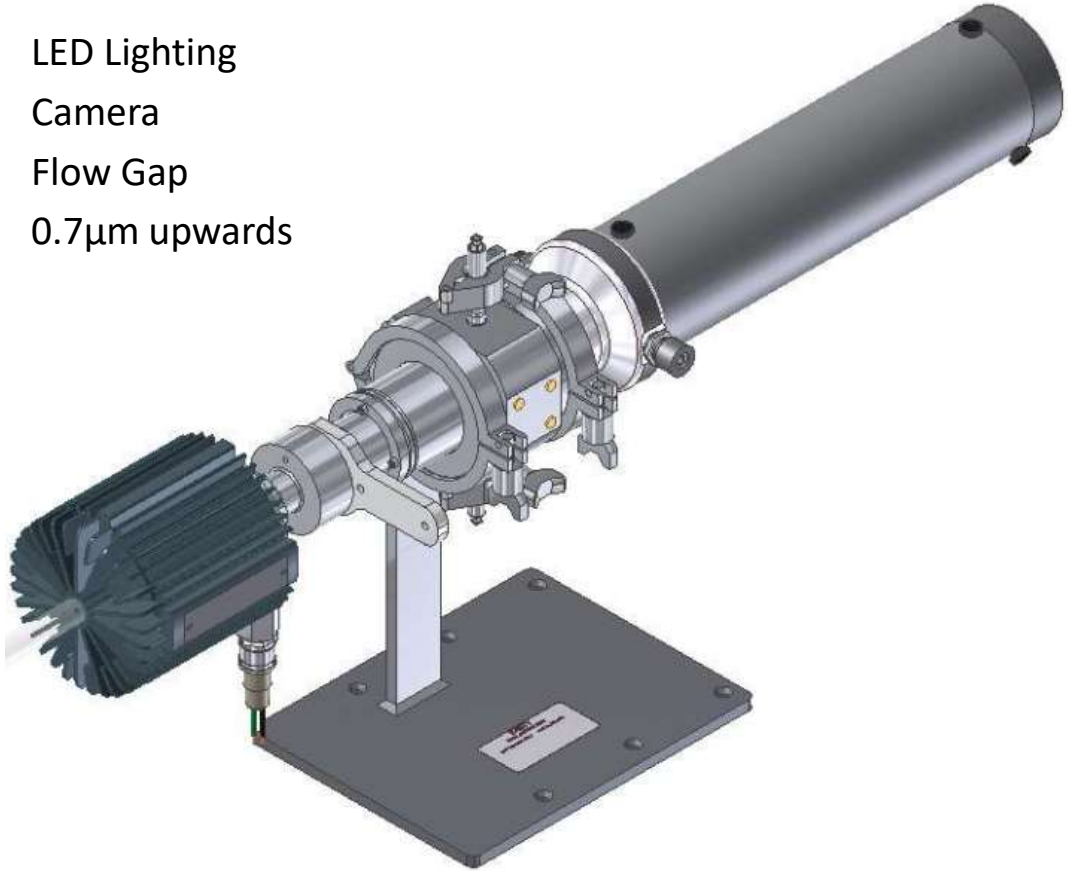


II. Solutions for Measurement & Automation Applications

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

HUYNH BANG

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



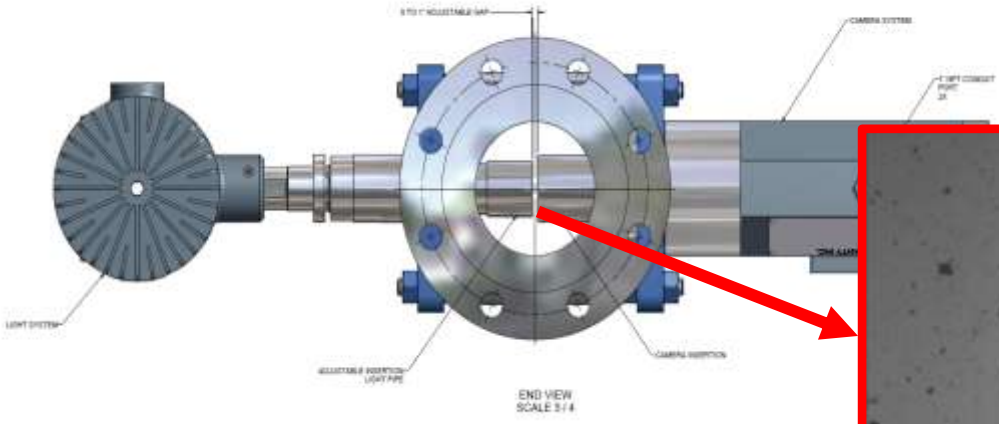
II. Solutions for Measurement & Automation Applications

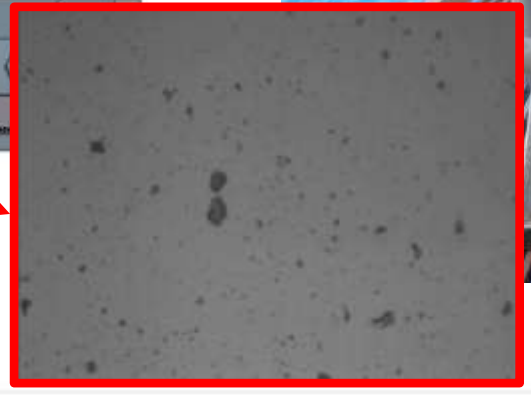
9. CANTY Vision Based Particle Size Analysis for Liquid Slurry Particle Size and Shape - Inline System

HUYNH BANG COMPANY

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

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





II. Solutions for Measurement & Automation Applications

9. CANTY Solid Sizer LAB

HUYNH BANG COMPANY

Video –

Solid sizer in LAB

II. Solutions for Measurement & Automation Applications

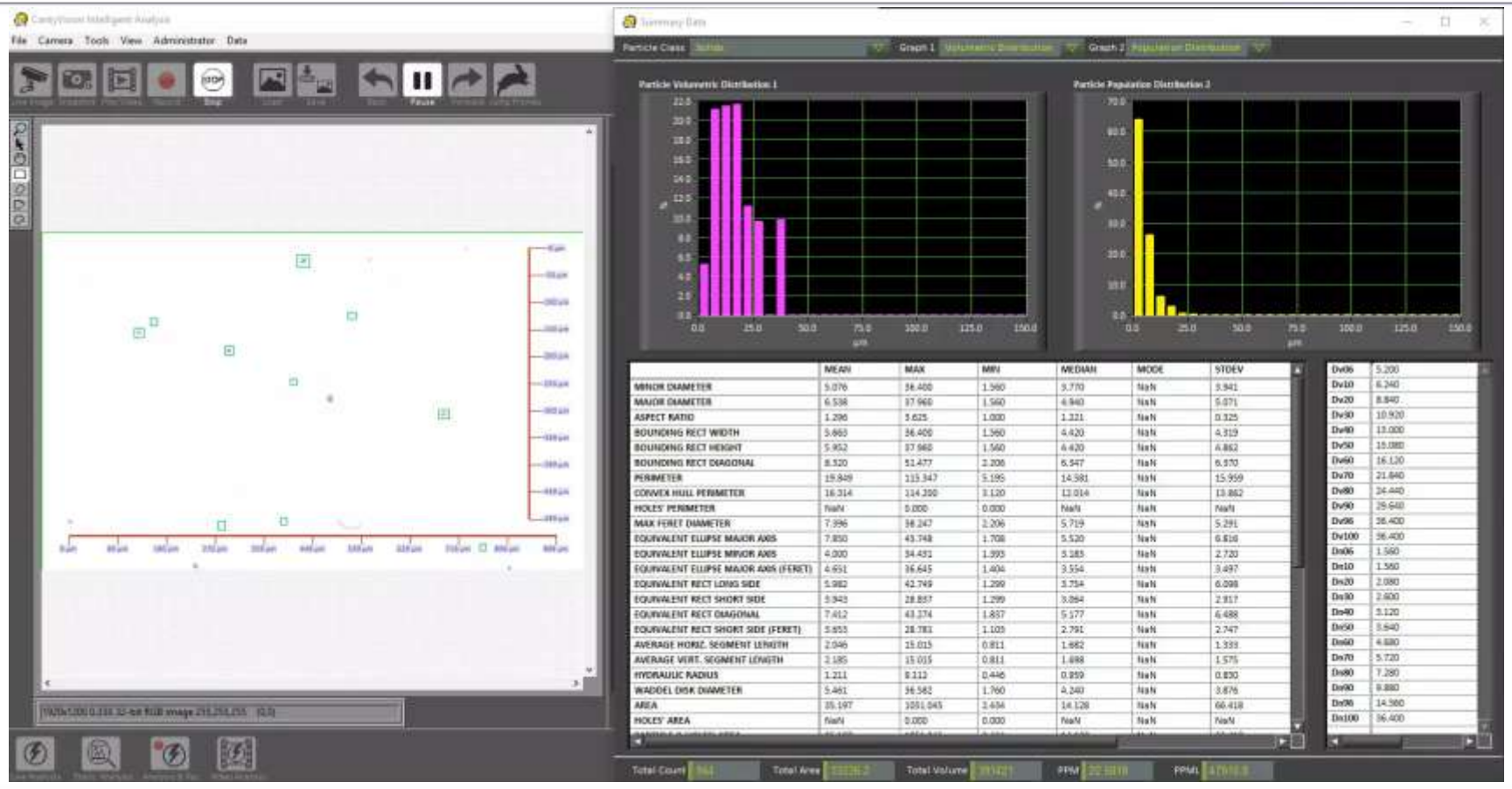
9. CANTY Solid Sizer LAB

HUYNH BANG

Video –Solid sizer in LAB

II. Solutions for Measurement & Automation Applications

9. CANTY Particle Sizing Systems

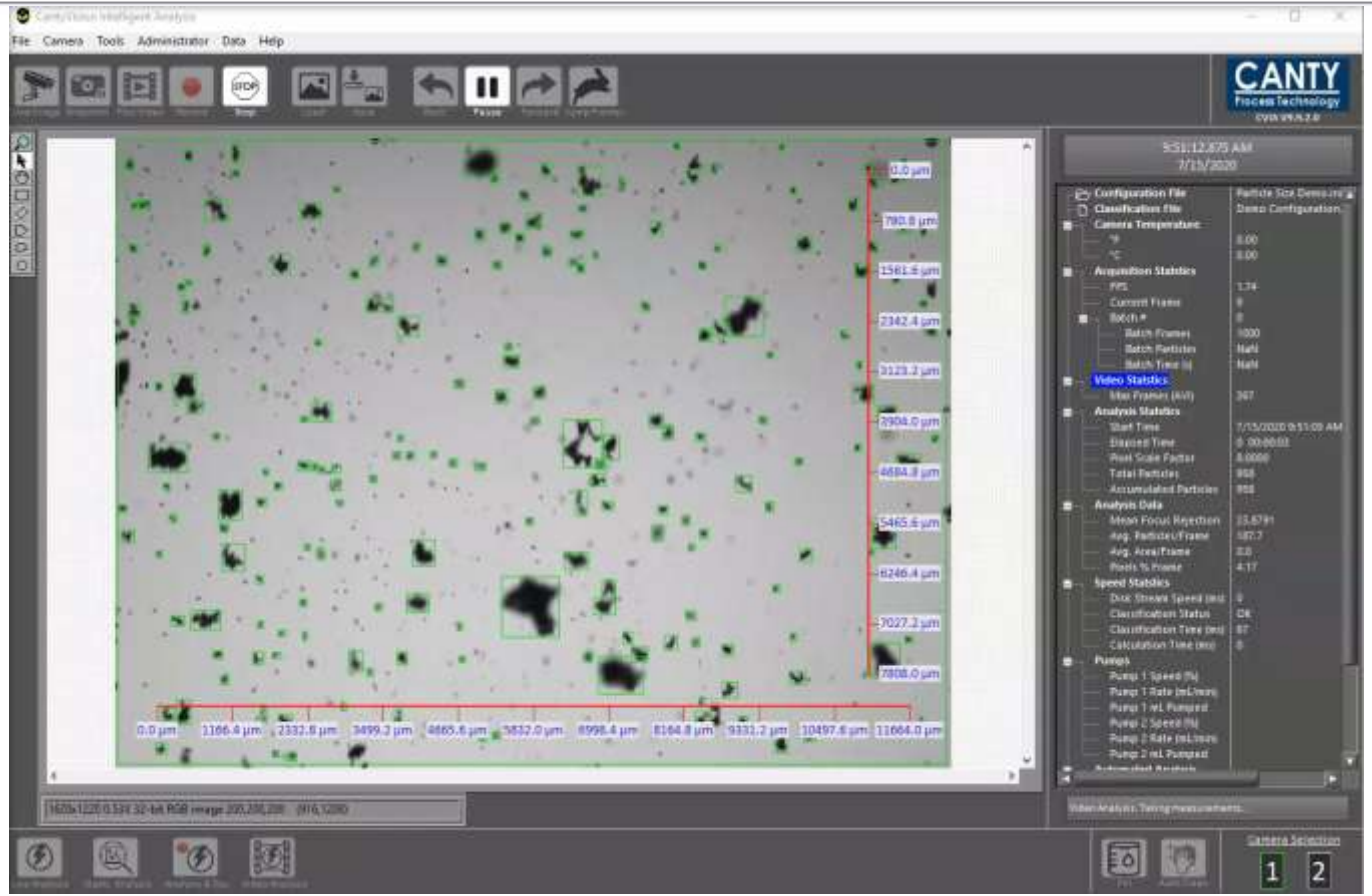


II. Solutions for Measurement & Automation Applications

9. CANTY Particle Sizing Systems

HUYNH BANG

COMPANY



Video –

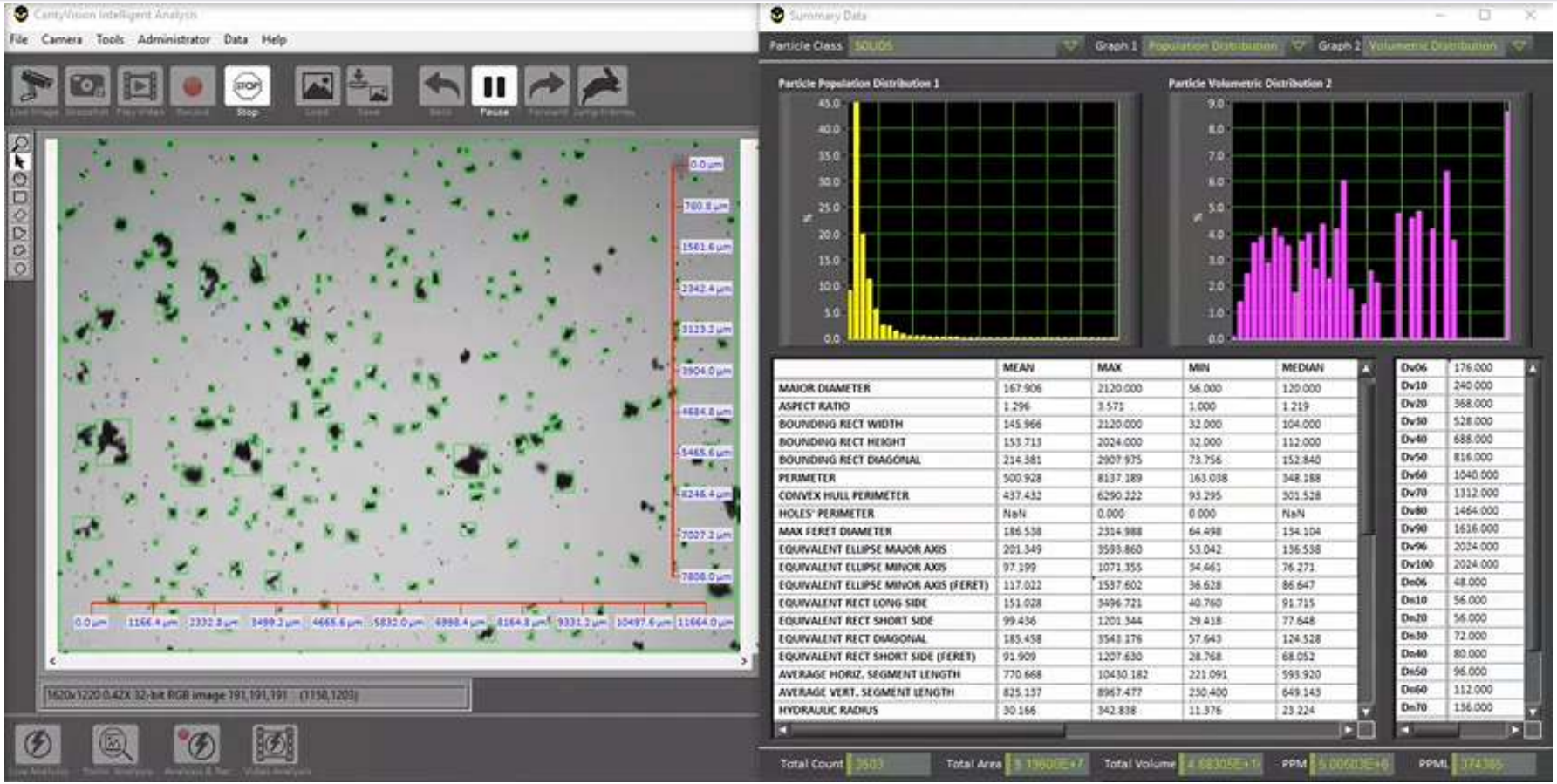
Particle Sizing Systems

on CANTY Vision software

II. Solutions for Measurement & Automation Applications

9. CANTY Particle Sizing Systems

HUYNH BANG



	MEAN	MAX	MIN	MEDIAN
MAJOR DIAMETER	167.906	2120.000	56.000	120.000
ASPECT RATIO	1.296	3.571	1.000	1.219
BOUNDING RECT WIDTH	145.966	2120.000	32.000	104.000
BOUNDING RECT HEIGHT	153.713	2024.000	32.000	112.000
BOUNDING RECT DIAGONAL	214.381	2907.975	73.756	152.840
PERIMETER	500.928	8137.189	163.038	348.188
CONVEX HULL PERIMETER	437.432	6290.222	93.295	301.528
HOLES' PERIMETER	NaN	0.000	0.000	NaN
MAX FERET DIAMETER	186.538	2314.988	64.498	134.104
EQUIVALENT ELLIPSE MAJOR AXIS	201.349	3593.860	53.042	136.538
EQUIVALENT ELLIPSE MINOR AXIS	97.199	1071.355	34.461	76.271
EQUIVALENT ELLIPSE MINOR AXIS (FERET)	117.022	1537.602	36.628	86.647
EQUIVALENT RECT LONG SIDE	151.028	3496.721	40.760	91.715
EQUIVALENT RECT SHORT SIDE	99.436	1201.344	29.418	77.648
EQUIVALENT RECT DIAGONAL	185.458	3543.176	57.643	124.528
EQUIVALENT RECT SHORT SIDE (FERET)	91.909	1207.630	28.768	68.052
AVERAGE HORIZ. SEGMENT LENGTH	770.668	10430.182	221.091	593.920
AVERAGE VERT. SEGMENT LENGTH	825.157	8967.477	230.400	649.143
HYDRAULIC RADIUS	30.166	342.838	11.376	23.224

Dv06	176.000
Dv10	240.000
Dv20	368.000
Dv30	528.000
Dv40	688.000
Dv50	816.000
Dv60	1040.000
Dv70	1312.000
Dv80	1464.000
Dv90	1616.000
Dv96	2024.000
Dv100	2024.000
Dn06	48.000
Dn10	56.000
Dn20	56.000
Dn30	72.000
Dn40	80.000
Dn50	96.000
Dn60	112.000
Dn70	136.000

CANTY PROCESS TECHNOLOGY

III. Contribute to the Success of our Customers

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

- Agriculture
  - DAWU
  - mimosaTEK
  - Rynan
  - Tây Ninh Tapioca
  - Vietnam Tapioca
- Boiler Industry
  - Hong Nhut
  - IMECO Boiler
  - Martech Boiler
  - Vietnam Boiler
- Breweries
  - Carlsberg
  - HABECO
  - Heineken
  - SABECO
  - Vietnam Brewery
- Car Manufacturing
  - Ford
  - Mercedes-Benz
  - Thaco
  - Toyota
  - VinFast
- Ceramic Industry
  - Caesar Sanitary Wares
  - Frit hue
  - Minh Long I
  - TOTO Vietnam
- Cement Industry
  - Insee (Siam City Cement)
  - Duyen Ha Cement
  - Ha Tien 1
  - Nghi Son Cement
  - Saint Gobain
  - Song Thao Cement
- Chemical Industry
  - Ba Con Co
  - Ca Mau Fertilizer
  - Dow
  - Henkel
  - LG Chem
  - Phu My Fertilizer
  - Procter & Gamble
  - Southern Basic Chemical

- Electronics & Semiconductor
  - First Solar
  - Hydra
  - Samsung
  - SEI Electronic Components
- Food & Beverage
  - 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
- Industrial Wood
  - May Forestry
  - MDF Quang Tri
  - Scancom
  - Vina Eco Board
  - VRG Dongwah MDF
- Oil & Gas
  - Linde Gas
  - Long Son Petrochemicals
  - Nghi Son Refinary and Petrochemical
  - Petro Vietnam
  - Premier Oil
  - Total
  - Rosneft
  - Puma Energy
  - Saigon Petro
  - VietsovPetro

- Paper, Packaging & Printing
  - An Hoa Paper
  - Cheng Loong
  - Crown Packaging
  - SCG Paper / Vina Kraft Paper
  - Vidon
  - Wattens Delfort Group
- Pharmaceutical
  - B.Braun
  - PYMEPHARCO
  - Tien Tuan Pharmaceutical Machinery
  - Suheung
  - Nanogen
  - Nipro Pharma
- Power Plants
  - Phu My 3 Power Plant
  - Nhiệt điện Phả Lại
  - Nhiệt điện Quảng Ninh
- Steel Industry
  - Formosa Ha Tinh
  - Hoa Phat Steel
  - Posco
  - Ton Dong A
  - TVP Steel
- Shipbuilding & Marine
  - Austal
  - HADUCO
  - Kristian Gehrhard Jebsen
  - PV Shipyard
  - Triyards
- Textile & Garment
  - Concord Textile
  - Formosa Taffeta
  - Hyosung
  - Nien Hsing Textile
  - Polytex Far Eastern
- ...

IV. Conclusion

Huynh Bang is a reliable and competent Partner.

HUYNH BANG COMPANY

- Huynh Bang is your partner for a Market Entry and Representation in Vietnam:
  - Product knowledge in the areas of Industrial Heat, Measurement and Automation
  - Market knowledge for industrial Equipment for more than 23 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

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