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# Product OOTTOCLE

Laboratory



**Test & Measurement** 



Environmental

**Petrochemical** 



Food, Feed & Beverage





# **Laboratory Solutions**

Our extensive laboratory portfolio features an expansive range of world-leading brands and instrument categories. We also provide high quality consumables and laboratory essentials.



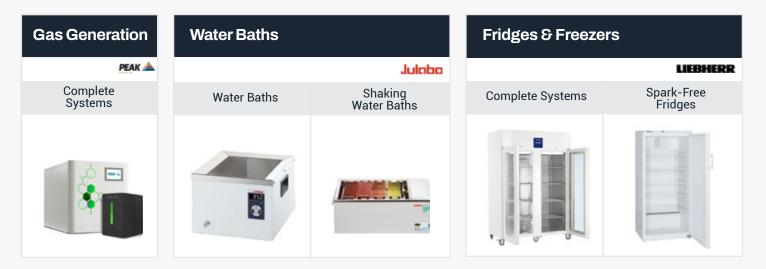


#### Reactors

CEM 🕼 🧅 syrris

Our team is available to come onsite and provide a safety training course for users of acid digestion vessels and laboratory pressure vessels.

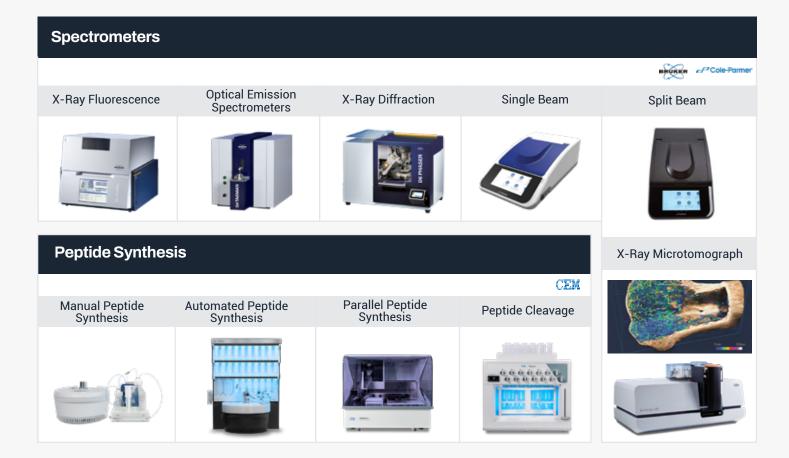




Fluid Management			Peristaltic Pumps	
	Fluid	WILL PLASTICK INC. MASTERFLEX'		Masterflex
Components	Quick Connect Couplings	PumpTubing	Industrial Pumps	General Laboratory Drives
		MASTERILEX TRANSFER		

#### Product Portfolio 2023





# **Environmental Monitoring Solutions**

Our environmental monitoring solutions include the systematic collection, analysis, and interpretation of data related to various environmental factors, including air quality, water quality, soil health, climate conditions, and biodiversity.

#### Water Sampling



Water Analysis				
			environmental BGenterd	MANTECH Xylem
HotBlock Digestion	Water Analysis Spectro	Total Kjeldahl Nitrogen	3 Minute Nitrogen Analyser	Cyanide Determination
Harr Hadad 329				
Trace Metal Digestion	ASTM TOC	SPE Oil & Grease	Benchtop Titrators	Automated Titration

Oxygen Demand			Water Analysis	
	CEM			environmental express
Respirometric BOD	10-minute BOD/COD	Automated BOD	Filtration	Digestion Vial
Traditional BOD	COD Thermoreactor	BOD Bottles	Flocculation Testers	Lab or Field Meter
BOD Lids	DO Meter	Sensor Options	Multi-Parameter	pH Meters
	ProSolo			

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#### **Plant Health Analysis**



# Food, Feed & Beverage Solutions

Our Food, Feed & Beverage Solutions encompass a range of scientific techniques and technologies aimed at evaluating the composition, nutritional content, contamination levels and overall integrity of food, feed and beverage products.



Moisture & Ash Analysis		Fibre Analysis		
	CEM			
Rapid Microwave Moisture	Rapid Microwave Sulfate Ashing	Total Dietary Fibre Analysis	Crude Fibre Analysis	Fibre Digestability
			AND A	

## Product Portfolio 2023

Fat Analysis		Protein Analysis	Particle Size Ana	llysis
market in		xytem CEM Egenand		spex <u>FRITSCH</u>
Indirect Crude Fat	Direct Crude Fat	Block Digestion	Laser Light Scattering	lmage Analyser
Hydrolysis For Total Fat	Automated Fat		Droplet Size Analyser	Sieve Shakers
		Kjeldahl Analysis		
Zero Chemistry Fat	Microwave Hydrolysis		Milling, Grinding	
		Titration		spex' <u>, <sup>FRITSCH</sup></u>
Automated Acid Hydrolysis	Solid Fat Content		Knife Mills	Rotor Mills
		Dumas Nitrogen	Croce Reptor	
		<u></u>	Cross Beater Mills	Cutting Mills
Extraction	Sectord:		00.	
Automated extraction	Manual extraction	Dairy Protein Analyser	Ball Mills	Cryo Mills

## **Moisture & Drying Solutions** memmert KERN CEM **Rapid Microwave** Accelerated Muffle **Rapid Drying** Halogen Moisture Drying Ovens Moisture Oven Furnaces Analysers **Sample Digestion Steam Distillation** Colorimetry environmental Montart CEM EGerhardt Automated Ammonia & Absorbance **Microwave Digestion** Hot Block Digestion **Alcohol Determination** Nitrate Determination Separation of Volatile Multi-Matrix Reflective **Kjelhal Digestion** Manual Distillation SO2 **Microwave Digestion** Components D D B

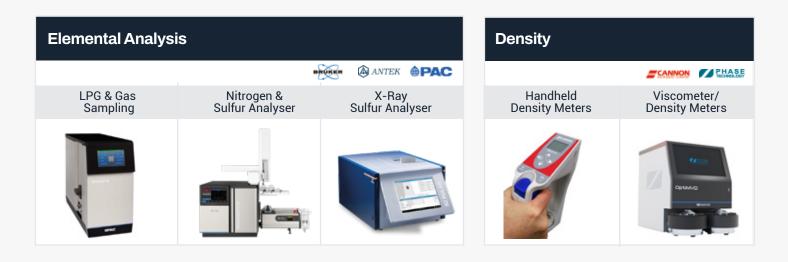
## **Nutritional Information Analysis**



# **Petrochemical Analysis Solutions**

Our Petrochemical Analysis Solutions use a range of analytical techniques and processes to characterise the physical, chemical, and performance properties of petroleum products, ensuring the quality, safety, and efficiency of petroleum products throughout their lifecycle, from extraction and refining to distribution and consumption.

We can assist you in developing a high-quality solution that will meet your stringent testing needs.



Cold Properties

Cloud Point
Pour Point
Cold Filter Plugging Point
Freeze Point
Wax Appearance Test

Image: Cold Point
Pour Point
Image: Cold Filter Plugging Point
Image: Cold Point<

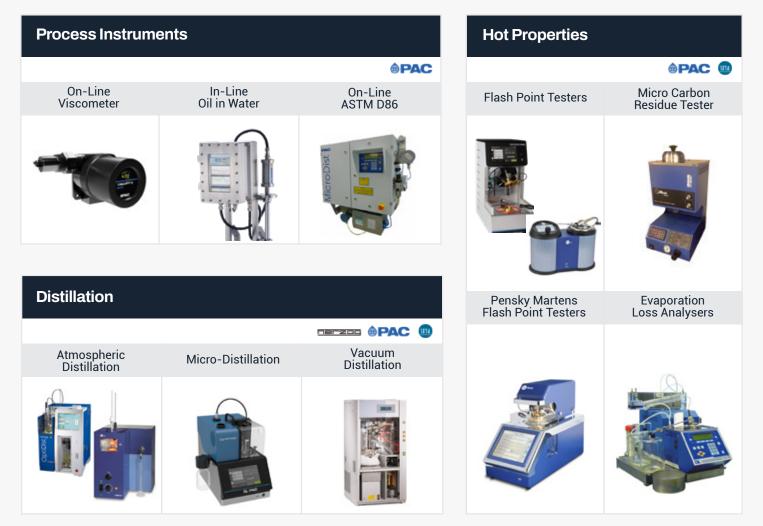
## ASTM Compliant Customised GC



## Viscosity



#### Product Portfolio 2023

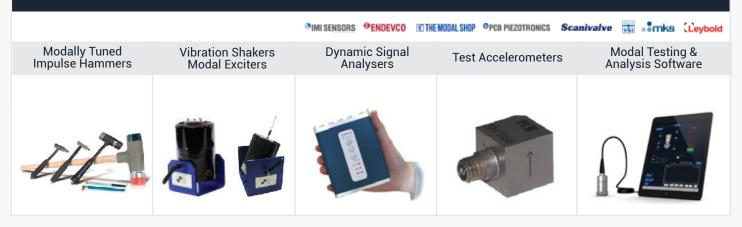


# **Test & Measurement**

Our Test & Measurement solutions encompass a wide range of tools, equipment, and techniques designed to assess, quantify, and validate the performance of various components, devices, and systems.

Our team has extensive experience in designing solutions for both small- and large-scale applications.

#### **Modal Analysis**



#### Testing & Simulation Systems



Sensors for Test 8	O Measurement			
				THE MODAL SHOP OPCB PIEZOTRONICS
Applications:		Accelerometers	Microphones	Pressure Sensors
Sensors for the measurement of acceleration, acoustics, force, load, pressure, shock, strain, torque, and vibration. We have a sensor for every stage of product development.				
Strain Sensors	Load Cells	Torque Transducers	Cables	Supportive Instrumentation
C JACK SK THE				
Preamplifiers	Signal Conditioners	Data Acquisition Systems	Dynamic Signal Analysis Software	Seismic Sensors
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Calibration System	ms			IST THE MODAL SHOP
Handheld Vibration Calibrators	Portable Vibration Calibrators	Accelerometer Calibration Workstation	Dynamic Pressure Calibration Systems	Portable Microphone Calibration Kits
Wind Tunnel Pres	sure / Temperature S	Sensors & Instrume	ntation	
<b>Applications:</b> Wind Tunnel Test, Flight	t Test, Aerodynamic & Aero	acoustics Sensors		Scanivalve
Miniature Ethernet Pressure Scanners	Thermocouple Scanners	Data Acquisition	Pneumatic Connectors & Tubing	Aerodynamics & Aeroacoustics Sensors
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THE MODAL SHOP

#### **Rotating Shaft Telemetry**

#### Applications:

Rotating shaft telemetry instruments can help measure strain, torque, RTD temperature, and voltage, on rotating shafts and provide torsional vibration monitoring.



Industrial Vibration	n Sensors, Switches	& Instrumentation		
Applications:	IMI SENSORS	CRYSTAL PCB PIEZOTRONICS		
Vibration switches sense vibration due to faults such as imbalance, misalignment, looseness, worn bearings, cracked gears or lack of lubrication.				
Industrial Accelerometers	4-20 mA Transmitters	Vibration Switches		
		- Carlos - C		
Industrial Cables	BNC Switch Boxes	Bearing Fault Detector (based on PeakVue™)		
Vibration Data Collector	Machine Condition Monitoring Software	Hand-Held Data Collectors		
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