

**M.A.T.e.**

MEASUREMENT & TECHNOLOGY EST.

INDUSTRIAL MACHINE DESIGN & AUTOMATION — SAUDI ARABIA & MIDDLE EAST

INDUSTRIAL MACHINE DESIGN

Precision Control Systems for Saudi Arabia & the Middle East

Turnkey automation solutions for asphalt, concrete and specialty material production — designed, built and supported in Saudi Arabia and the Middle East.

21+

ACTIVE CLIENTS

Multiple

PRODUCT LINES

1999

ESTABLISHED



FOR YOUR NOTES ONLY

APPENDIX

This appendix provides a quick-reference summary of M.A.T.e.'s product portfolio, key acronyms used throughout this document, contact and location details, and document version information.

A. Product Quick-Reference

Model	Application	Key Output / Specification	Portable
ACPA-900-C	Concrete batch plants	Up to 900 formulas; 6 aggregates; AI fine-tuning	No
ACPA-900-A	Asphalt batch plants	5 aggregates + filler; auto & manual modes	No
BES-2000	Bitumen modification	25 TPH; ≥99.5% accuracy; 2×5,000 L mixers	Yes
MSDS-2000	Asphalt dosing add-on	Rubber / fibre / sulfur; ≥99% accuracy	Yes
CPDS-2000	Colour concrete dosing	4 pigments; ≥99%; patent applied	Yes
CBS-2000	Cutback bitumen MC1/RC2	12 TPH; auto truck fill by weight	Yes
ARAS-2000	Recycled asphalt (RAP)	Up to 40% RAP; 30 T hopper; 35 m conveyor	Yes

B. Abbreviations & Acronyms

RAP	Reclaimed Asphalt Pavement
SBS	Styrene-Butadiene-Styrene — polymer bitumen modifier
TPH	Tonnes Per Hour
MC1	Medium Curing Cutback Bitumen, Grade 1
RC2	Rapid Curing Cutback Bitumen, Grade 2
AI	Artificial Intelligence — auto fine-tuning control logic
KSA	Kingdom of Saudi Arabia

C. Contact & Location

Head Office	Near entrance of Riyadh's First Industrial City, Riyadh, KSA
Manufacturing	Al-Daerii Industrial Area, Riyadh, KSA
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D. Document Information

Document	M.A.T.e. Company Profile — 2026 Edition
Prepared by	Commercial Division, Measurement & Technology Est.
Contact	mhodairi@matemeasurement.com · +966 565984364
Disclaimer	Specifications subject to change. Contact M.A.T.e. for current datasheets.

ABOUT M.A.T.E.

Measurement & Technology Est. (M.A.T.e.) was founded in 1999 in Riyadh, Kingdom of Saudi Arabia, to deliver industrial machine design and precision engineering solutions for Saudi Arabia and the Middle East's construction and infrastructure sector. In 2012, M.A.T.e. expanded with the acquisition of an Automation Division, deepening our capability in PLC and industrial computer control systems, industrial robotics and mechatronics. Today we serve **21+ active client facilities** across Saudi Arabia and the Middle East with a portfolio of multiple specialized automation products — covering **Measuring, Weighing, Industrial Automation, Instrumentation, Custom Robotics and Mechatronics** under one roof.

DIVISION STRUCTURE

1. Automation Division	2. Robotics & Mechatronics	3. Commercial Division
Turnkey computerized control and monitoring for industrial processes. Core products: concrete/asphalt plant automation, bitumen modification, dosing systems.	Custom turnkey electromechanical projects — pneumatic transport, material classification, custom machine design, and dedicated robotic systems for high-speed precision applications.	Marketing & Product Promotion, Customer Relations, Contracting, and Accounting & Finance.

SERVICES

- Computerized automated systems for various industrial processes
- Material handling systems
- Laboratory automation systems and equipment
- Bridge and road safety monitoring electronics
- Weight-derived plant automation and batching systems
- Automated safety and security systems
- Environmental and pollution monitoring
- Preventive maintenance, field repair and equipment calibration

ROBOTICS & MECHATRONICS DIVISION

Custom Turnkey Electromechanical Projects	Dedicated pneumatic powder transport, automatic material classification by volume, colour and density.
Custom Machine Design	Micro-mechanical systems with integrated electronics and controllers (e.g., automatic storage/retrieval of small high-value items).
AH-2000 — Automatic IR Heating & Inspection System	Used in large plastic pipe manufacturing. Applies precise IR heat and simultaneously scans for defects — reporting coordinates for correction before shipment. Patent pending.
AP-2000 — Robotic Painting System	Custom robotic painting system for industrial surface applications.
Foundry Metal Casting Preparation	Clay mould automatic preparation system for foundry metal casting.



**CONCRETE
AUTOMATION**

ACPA-900-C

Concrete Batch Plant — Intelligent Automation & Control System

AI-based system for controlling concrete batch plant facilities, automatically optimizing production speed and accuracy. Engineered for demanding production environments where consistency and traceability are critical. Operates with no prior computer experience required from plant operators — the system handles optimization automatically. Fully computerized with real-time monitoring, truck delivery tracking, and a comprehensive reporting suite.

Key Features & Specifications

- Controls up to 6 aggregates, cement, water and additives simultaneously
- Stores and retrieves up to 900 mix formula designs
- Truck delivery reports with time, date and formula stamps
- Daily and monthly material consumption reports
- Automated AI fine-tuning for maximum batching accuracy
- User-friendly interface — no prior computer experience required
- Real-time production monitoring with alarm management

Application Note: M.A.T.e.'s flagship product, deployed at concrete producers across Saudi Arabia and the Middle East, from Riyadh to Jizan.



**ASPHALT
AUTOMATION**

ACPA-900-A

Asphalt Batch Plant — Intelligent Automation & Control System

Computerized control and monitoring for asphalt batch plants. AI-based auto fine-tuning delivers maximum speed and accuracy across all production cycles. Designed for both greenfield plants and retrofits onto existing equipment. Supports automated and manual operating modes with seamless switching — ideal for plants that require operator override capability during maintenance or calibration.

Key Features & Specifications

- Controls up to 5 aggregates, filler materials and hot asphalt
- Automated and manual operating modes with smooth switchover
- Truck delivery, daily and monthly consumption reports
- AI-based fine-tuning for continuous production optimization
- Compatible with all major asphalt batch plant manufacturers
- Configurable alarm thresholds for overweight / underweight batches

Application Note: Deployed at multiple sites across Saudi Arabia. Compatible with Marini, Ammann, Benninghoven, Barber Green and other major OEM platforms.



**BITUMEN
MODIFICATION**

BES-2000

Bitumen Modification System

Enhances bitumen's chemical and physical properties through the addition of polymer or crumb rubber modifiers — a process known as **Bitumen Modification**. Modified bitumen dramatically reduces road cracking and extends pavement service life under heavy traffic and extreme temperature cycles. The BES-2000 uses an **AI-controlled, patented pneumatic polymer transfer system** that eliminates jamming, delivers precise dosing, and operates continuously at high throughput. The entire system is housed in a standard 20-ft shipping container for rapid site deployment and relocation.

Key Features & Specifications

- Compatible polymers: SBS, Pave-Flex, Polyethylene, Polybelt, EE2
- Polymer addition ratio: up to 15%; accuracy $\geq 99.5\%$
- Output capacity: 25 tonnes per hour
- Primary and secondary mixers: 5,000 litres each
- 2× high-shear mills for complete homogeneous blending
- Patented pneumatic polymer transfer — no jamming or blockage
- Fully portable — housed in standard 20-ft shipping container

Application Note: Deployed at Regional Petroleum Products, ITTIHAD Bitumen, and 20+ other clients across the Kingdom. Patent registered in KSA.

MSDS-2000

Advanced Additive Dosing System for Asphalt & Concrete Plants

**MULTI SOLIDS
DOSING SYSTEM**



DOSING SYSTEM

MSDS-2000

Multi Solids Dosing System

An **add-on dosing unit** designed for existing asphalt batch plants, enabling the accurate introduction of Crumbed Rubber, Polyester Fiber and Sulfur Granules directly into the mixer at precisely programmed quantities. The MSDS-2000 integrates seamlessly with the plant's existing control system and requires no structural modification to the plant itself. Fully automated during dosing cycles — no operator attendance required. Portable pneumatic transfer system eliminates all jamming risk.

Key Features & Specifications

- Doses Crumbed Rubber, Polyester Fiber and Sulfur Granules
- Compatible with: Marini, Ammann, Benninghoven, Barber Green, Vbow, Vionova
- Accuracy: $\geq 99\%$ on all material types
- Pneumatic transfer system — no jamming or blockage risk
- Portable between plant sites with minimal setup time
- Fully automated operation during dosing — no operator required
- No structural modification required to existing plant

Application Note: A cost-effective upgrade for SMA and rubberized asphalt production, meeting Ministry of Transport specifications for high-performance road surfaces.



DOSING SYSTEM

CPDS-2000

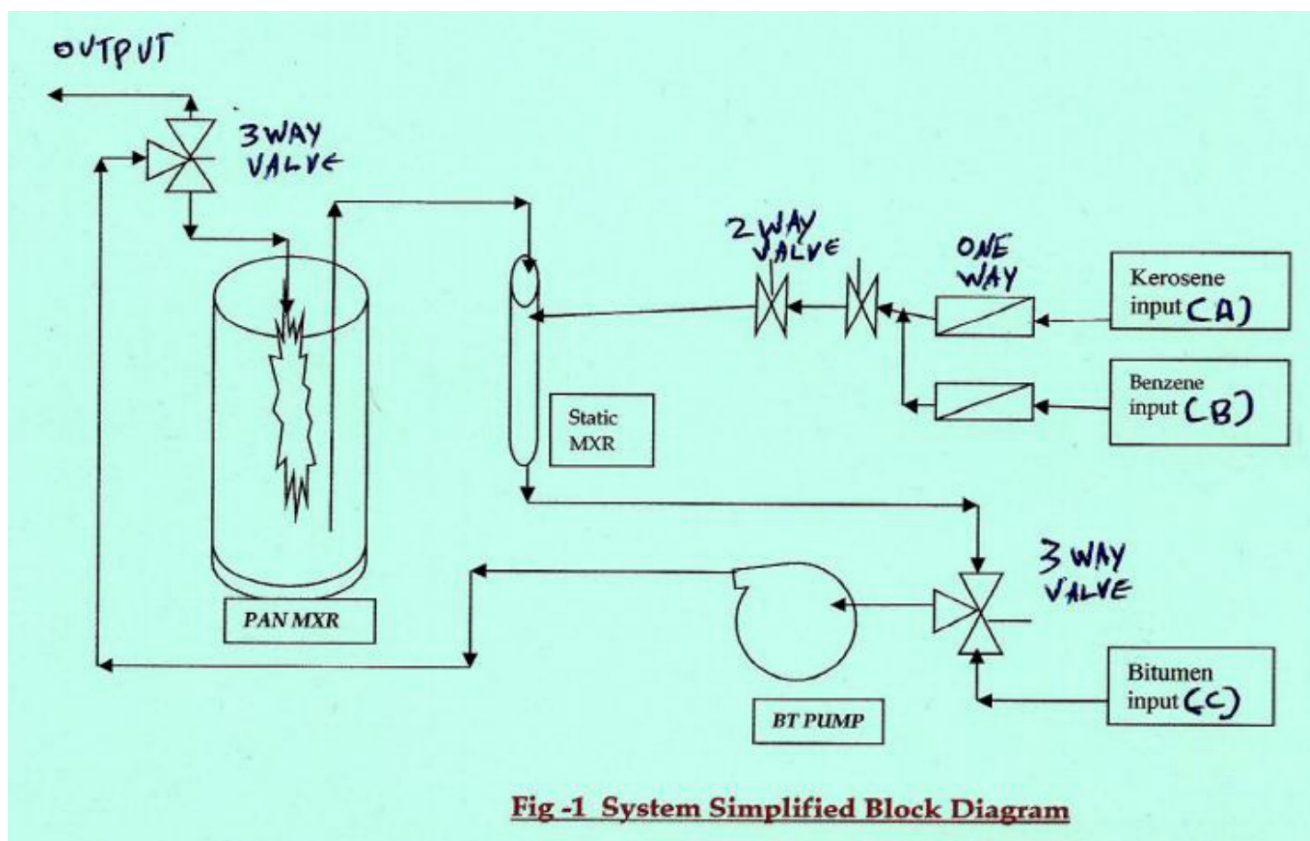
Color Pigments Dosing & Proportioning System

Automated dosing and proportioning of **up to 4 color pigments** for colored concrete production. The CPDS-2000 integrates directly with the concrete batch plant control system and delivers each pigment at precisely the correct quantity per batch — ensuring consistent color across all pours. Designed for architectural concrete, paving blocks, tiles and any application where color consistency is critical. Achieves 99%+ dosing accuracy with full batch traceability and reporting. **Patent applied for in Saudi Arabia and multiple other countries.**

Key Features & Specifications

- Doses up to 4 distinct color pigments per batch
- Accuracy: $\geq 99\%$ on all pigment types
- Direct integration with existing concrete batch plant controls
- Full batch traceability — color data logged per truck delivery
- Suitable for architectural concrete, paving, tiles and decorative elements
- Patent applied in Saudi Arabia and internationally

Application Note: Ideal for municipalities, landscaping contractors and precast producers requiring consistent color concrete. M.A.T.e. is one of the very few suppliers of automated pigment dosing in Saudi Arabia.



BITUMEN SYSTEM

CBS-2000

Cut-Back Bitumen Production System (MC1 / RC2)

Produces asphalt cutback liquids **MC1 (Medium Curing)** and **RC2 (Rapid Curing)** at high throughput with consistent quality. Cutback bitumen is used in prime coats, tack coats and penetration macadam applications. The CBS-2000 fully automates the blending and truck filling process — auto filling by weight ensures accurate load-out every cycle without operator intervention. Portable design allows the unit to be relocated across multiple production sites as required.

Key Features & Specifications

- Produces MC1 and RC2 cutback grades
- Output: up to 12 tonnes per hour
- Accuracy: $\geq 99\%$
- Automated truck filling by weight — no operator required at fill station
- Portable — relocatable between production sites with minimal downtime
- Safety interlocks and level alarms on all tanks

Application Note: Used by bitumen product manufacturers and road construction contractors requiring on-demand cutback production, reducing cost and improving supply chain reliability.



**RECYCLING
SYSTEM**

ARAS-2000

Automated Recycled Asphalt System

Processes **Reclaimed Asphalt Pavement (RAP)** for direct reuse in new asphalt production — reducing raw material consumption, lowering project cost, and supporting sustainable road construction. The ARAS-2000 integrates with the asphalt plant's existing control system and manages RAP introduction at precise proportions. Supports both heated RAP introduction (up to 40% RAP) and ambient temperature introduction (20–30% RAP). Housed in a standard 20-ft container for complete portability between sites.

Key Features & Specifications

- RAP incorporation: up to 40% with heating; 20–30% without heating
- RAP hopper capacity: 30 tonnes
- Conveyor length: 35 metres
- Compatible with all major asphalt batch plant brands
- Housed in a standard 20-ft container — fully portable
- Reduces raw bitumen and aggregate consumption per tonne of asphalt
- Supports Saudi Green Initiative targets for sustainable construction

Application Note: Reduces material costs by up to 15–25% per tonne while meeting RAP incorporation requirements in modern road contracts.

ACTIVE CLIENT FACILITIES

M.A.T.e. systems are deployed at leading construction material producers, contractors and bitumen manufacturers throughout Saudi Arabia and the Middle East.

1. Al-Fahd	2. Regional Petroleum	3. Ittihad Bitumen
4. Alajmi Co.	5. Sama Bit Factory	6. Coastal Bitumen Factory
7. Petrolic Factory	8. Afaq Factory	9. Alsolh Factory
10. Al-Arabi Bitumen Factory	11. United Brothers Factory	12. Red Sea Bitumen Factory
13. Masarat Teibah Co.	14. National Projects Co.	15. Almardoof Contracting Co.
16. Enjaz Co.	17. Zoman Alhajiri Co.	18. Rahal Group Bitumen Factory
19. Passing Road Factory	20. Middle East Modified Bitumen Factory	21. Rawafid Factory

KEY PERSONNEL

Mr. Mohammed G. Al-Tamimi General Manager +966 535399939	Accountancy background with professional diplomas earned in the UK and other countries. Responsible for overall company strategy, client relations and financial management.
Eng. Monther H. Hodairi Technical Manager +966 544396464	Control Engineering degree, Coventry University (UK). Professional experience in the UK, USA and KSA. Leads all automation product development, project execution and technical sales.
Eng. Murtada M. Idrees Electrical Engineer	Electrical Engineering degree. Field experience in Sudan and Saudi Arabia across industrial automation and control panel design.

The M.A.T.e. team includes more than **20 engineers and technicians** with specializations in control engineering, electrical engineering, mechanical engineering, software development and field commissioning. Team members hold degrees and professional qualifications from Saudi, UK, and other international institutions, with hands-on experience across hundreds of plant installations throughout Saudi Arabia.

CONTACT INFORMATION

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FOR TECHNICAL ENQUIRIES & QUOTATIONS

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OUR COMMITMENT

M.A.T.e. is committed to delivering automation solutions that perform reliably from day one and continue performing throughout their operational life. Every system is designed, assembled, tested and commissioned by our own engineering team — ensuring full accountability and rapid response when clients need support.

Our after-sales support includes **preventive maintenance contracts, field calibration, spare parts supply and remote diagnostics**. M.A.T.e. engineers are available to visit any site in Saudi Arabia for commissioning, training and ongoing support.

We believe in long-term partnerships with our clients. The majority of M.A.T.e.'s business comes from repeat orders and referrals — a reflection of the trust our clients place in our products and our people.

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