



Manufacturer of Pre-Painted Aluminium & Steel Coils



UNITED METAL COATING L.L.C.



UMC

Redefining the art of Coil coating.



- Pre-Painted Aluminum Coil Production Capacity: 50,000 MT
- Pre-Painted GI/AZ Coil Production Capacity: 140,000 MT
- An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Company
- SASO and EPD Certified Company



Company Profile

United Metal Coating LLC has been founded in the year 2008 in Dubai, a cosmopolitan city in the U.A.E and begun commercial operations in the year 2009. UMC is a part of AJ Group of companies with diversified interests in building and industrial sector in the U.A.E for more than two decades.

UMC had set up its First coil coating line (CCL-1) with an annual production capacity of 25,000 MT Pre-Painted Aluminum coils / 70, 000 MT Pre Painted Steel coils for end applications such as Roofing & Claddings, Façade Awnings, Interior Ceilings, Rolling Shutter, ACP Panels and Cold Storage Rooms and so on.

To meet the growing demands for Quality Pre-Painted coils in the Domestic market as well as the Export markets; UMC has expanded its capacity by setting up the Second Coil Coating Line (CCL-2) in November 2015 to reach a total annual production of 50,000 MT Pre-Painted Aluminium coils / 140,000 MT Pre-Painted Steel coils.

High Speed Continuous Stucco Embossing machine has been commissioned in 2018 to increase UMC's product portfolio.

Plastisol coating up to 200 Microns with smooth or Leather finish on Aluminum or GI Steel has been successfully produced in 2019 to cater the needs of cold storage and food processing markets.

Today UMC is the leader in Coil coating industries in the Middle East region, and UMC Quality has become a Benchmark and Reference name for the coil coated products among roll formers, contractors, Consultant and the Architects.

UMC is currently exporting their products, Pre-Painted Aluminum and Steel coils, to more than 16 Countries in Asia, Africa, Europe, Australia and North & south America

UMC has invested more than USD 100 Million to run these facilities.

UMC, an ISO certified Company and also a member of European Coil Coating Association, ensures the Quality standards of the company is at par with any other International suppliers.

UMC always believes in reliability and advanced technology of the production equipment which ensures Consistent and Quality output of the finished Products.

This is the reason UMC has gone for reputed equipment suppliers as listed below for their Production Facilities.

- Danieli, Italy
- VITS, Germany
- ABB and Siemens Drives and Controls
- EMG, Germany
- MMC, India
- Bronx, Australia



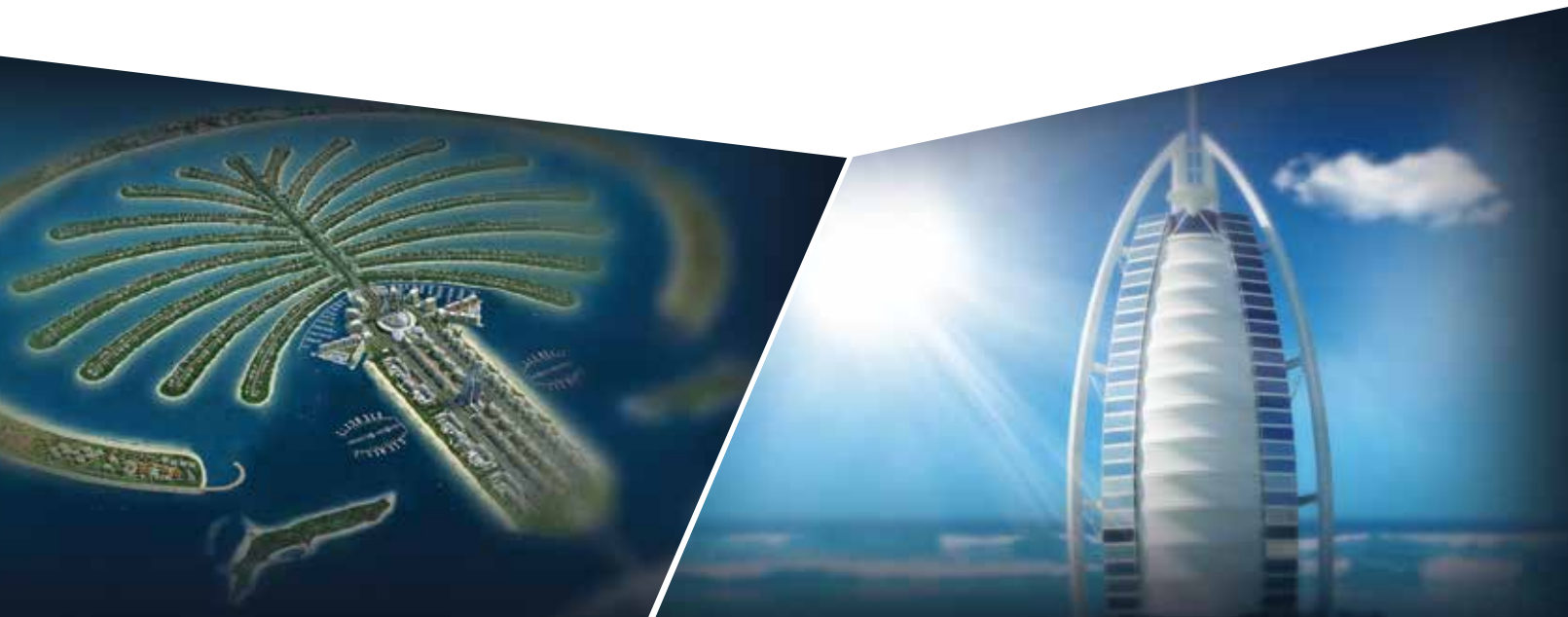


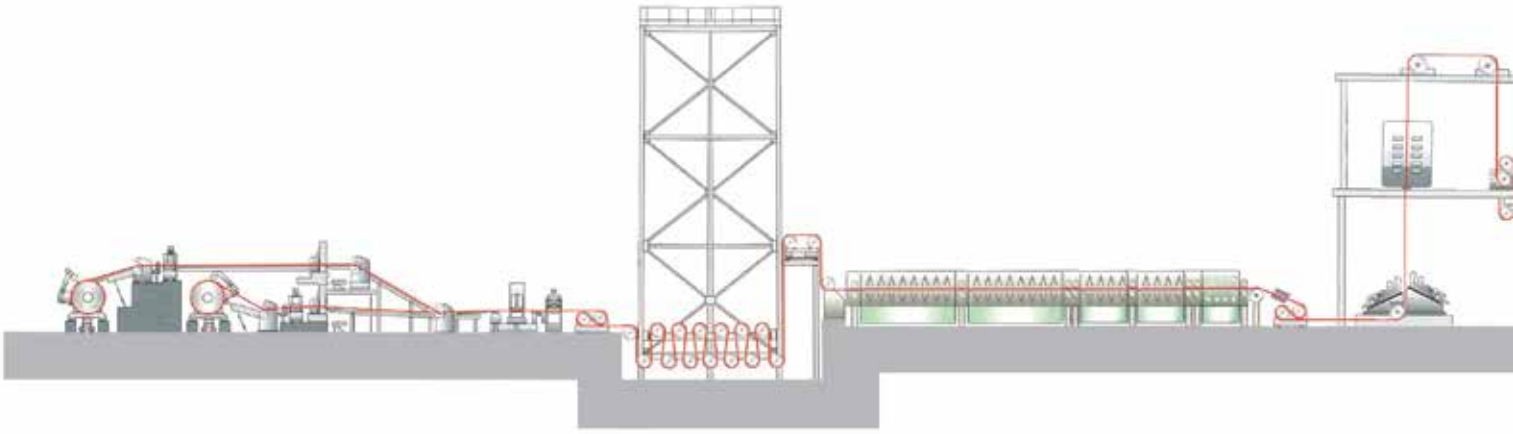
Mission

- Continuous investments in Technology, Equipment and Innovative Products to give high Standard Products to the Customers.
- Continuous efforts to meet the total Quality requirements of the customers.
- Continuous efforts to Deliver Best Services, Technical supports and Competitive prices to the customers.

Vision

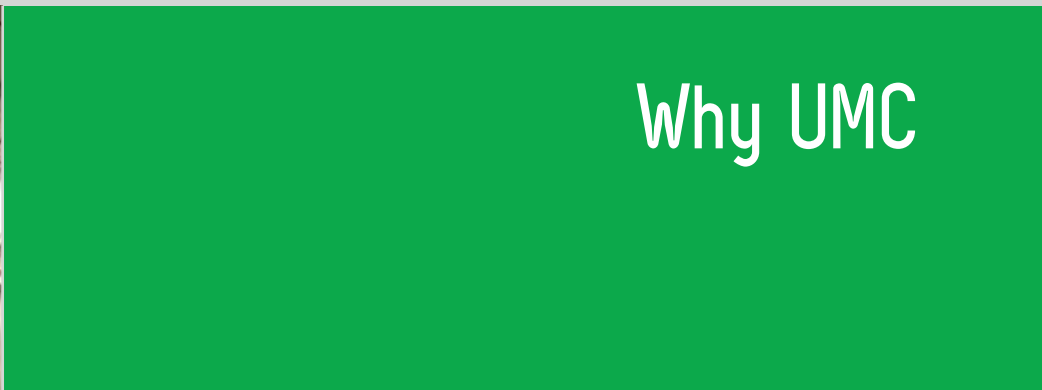
Tireless efforts to reach the highest level of Quality, Service and Competitive prices to the customers and thus remains the market leader in the Pre-Painted Coil business.

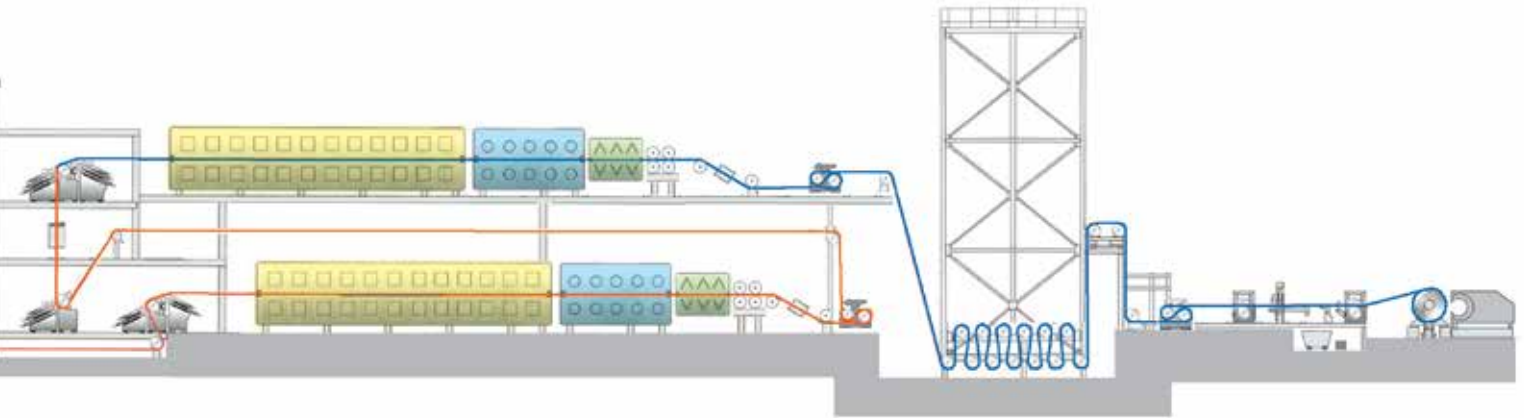




Salient Features

- In house Tinting & Colour matching facility with Data colour software ensures colour consistency with a short supply notice.
- 3 Roll reverse Digital Controlled Coaters ensures uniform and accurate coating Thickness
- Air circulation and indirect heating of the ovens ensures proper paint curing and thus nullify the yellowing effect.
- High efficiency Incinerators to burn the solvents generated from the painting process thereby remains Environment friendly.
- 2-Colour Printing Products such as wood, marble or any other design for decorative end applications. 25 Different designs are available for the decorative end uses.
- High speed Continuous Stucco Embossing machine and Plastisol Leather Embossing machine for added product portfolios
- Bright Aluminum Coated products in Gold/ Silver/ Copper colours with Diamond and Stripe Patterns.
- Two Advanced loop driven slitting line to meet the precise requirements of the customers.
- High speed Production line for faster deliveries.
- UMC has an in house automatic Dromont Paint mixing facilities from Italy to ensure quick delivery, consistency & accurate colour matching of the paints.



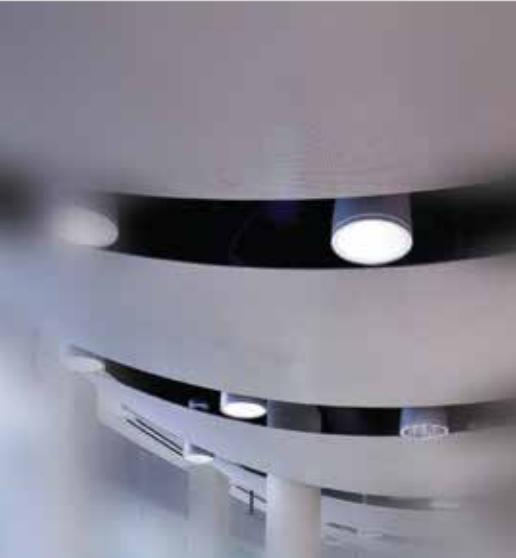
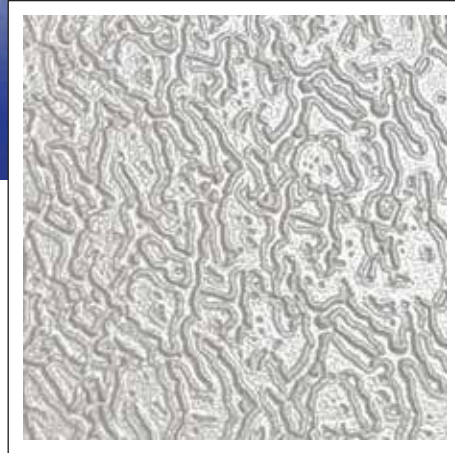
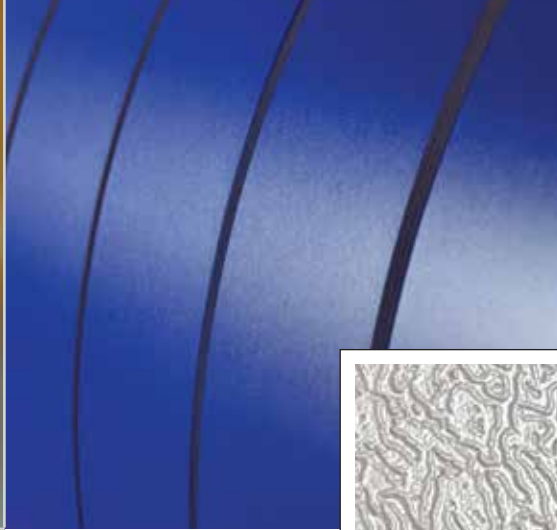


Production Process

- 2 stage highly Efficient Degreasing sections to clean oil and residue from the coils.
- 2 stage Ultra DM Water Rinsing
- 2 Roll Reverse Vertical Chemi Coater for Chrome/ Chrome free Pretreatment for high Corrosion resistance, Good paint adhesion and Environment friendly Products.
- Primer coating with Digital controlled 3 roll reverse roller machine
- Air floatation primer oven to cure the paint uniformly and consistently
- Top coating with Digital controlled 3 roll reverse roller machine
- Air floatation finish oven to cure the paint uniformly and consistently
- QC inspection to confirm specifications.
- Finished coated product
- Slit to Width
- QC inspection
- Packing
- Dispatch

UMC has the latest state of art coil coating line to meet every requirement of customer need. The company has professional experts having more than 30 years coil coating, cold rolling and galvanizing line experience. In other words, more than 3,000,000 tons production experience. UMC believes in continuous training of their employees, participating in coil coating related seminars and research programs and thus updating our knowledge.





Products

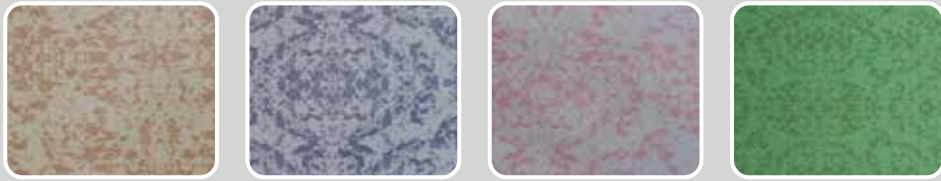
- UniBond® RMP** : Regular Modified Polyester
- UniBond® HDPE** : High Durable Polyester
- UniBond® SMP** : Silicon Modified Polyester
- UniBond® Ultra** : PVDF Kynar 500- 2/3/4 Layer Coating up to 120 Microns
- UniBond® Endura** : Anti-Corrosive Primer with Urethane / Epoxy Coating- 2/3/4 Layer Coating up to 150 Microns
- UniBond® Plasto** : Plastisol Smooth Finish up to 200 Microns
- UniBond® Plasto Leather** : Plastisol Leather Finish Coating up to 200 Microns
- UniBond® SuperCool** : Thermal Regulation coatings For Achieving Higher SRI Values
- UniBond® Hygiene** : Anti-Bacterial Coating
- UniBond® PMMA** : Polymethyl Methacrylate Coating
- UniBond® ARS** : Polyurethane Polyamide / Abrasion Resistance System
- UniBond® Wrinkle** : Anti-Dust / Anti-Skidding System
- UniBond® EcoFresh** : Self Easy Cleaning
- UniBond® TOC** : Thin Organic Coating
- UniBond® Stucco** : Stucco Embossed Mill finish & Painted coils
- UniBond® Acry** : Acrylic Coating
- UniBond® Terracotta** : Polyester Texture Finish

Applications

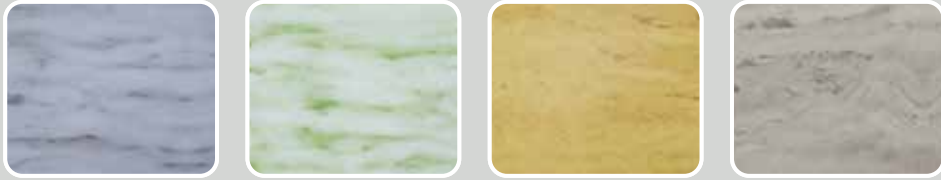
- Roofing & Claddings
- Facade & Awnings
- Interior Ceilings
- Sign Boards
- Rain water goods like Gutter, Downspout
- Screen Frame
- Cold storage/ Food storage/ Food processing centers
- Rolling shutters
- White Goods
- Truck/ Trailer/ Caravan Bodies
- Car number plates
- Lighting / Automobile industries
- Instruments / Dial Gauges
- Hospitals / Schools and Hygiene End uses.
- Aluminium Composite panels



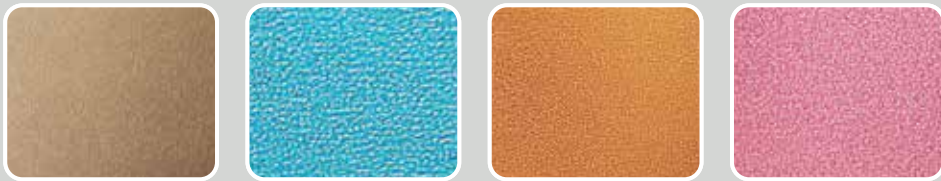
Carpet



Marble



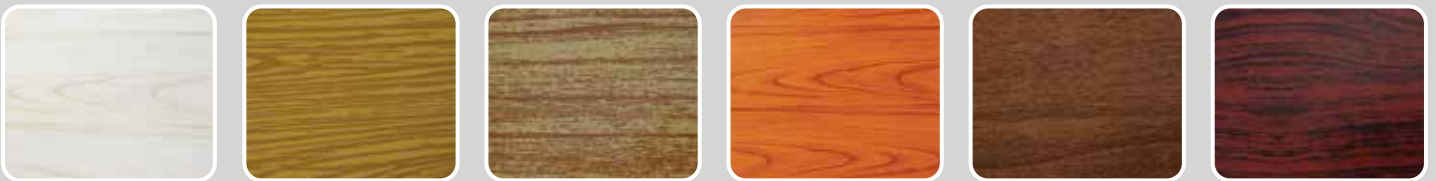
Texture



Stucco Embossing



Wood



Wrinkle



Special



Coating Line Specification

	Coating Line -1	Coating Line -2	Slitting Line -1 & 2
Substrates	Aluminum and steel	Aluminum and steel	Aluminum and steel
Capacity (Aluminum)	25,000 Tons	25,000 Tons	50,000 Tons
Thickness	Aluminum	0.21-1.20	0.23-1.60
	Steel	0.20-0.70	0.20-1.20
Width	1300	1300	20-1300
Coil I.D	508	508	408/508
Coil O.D	1800	1800	1800
Coil Weight	1000 Kgs -7000 Kgs	1000 Kgs -7000 Kgs	50 Kgs-7000 Kgs

Other Specifications

	Painted Aluminum Coil	Painted GI Coil
Type of Material	3003/3004/3005/3105 1050/5052/5754 series	HDG/ ALUZINC
Grade	H-42/44/46/48	LFQ, SGCC, SS CS , DX , HX Grades
Specifications	ASTM-B-209 M, AAMA 2605 EN 485, EN 573, EN 1396 DIN 1745,DIN 1783 BS 1470	ASTM A -653, ASTM A 792 ASTM A - 755 EN 10346,EN 10143 ,EN10327 JIS G 3302
Coating Standards	ECCA / ASTM / EN / AAMA	
ISO Standards	ISO 9001:2015, ISO 14001:2015, ISO 45001:2018	
Pre Treatment Type	Chrome Tetravalent/ Chrome Free	
Packing Description	Eye to Wall/ Eye To Sky On wooden Pallets Multiple coils are separated by Wooden Spacers and stretch wrap	
Pallet Mass	1000-3000 Kgs	1000-5000 Kgs
Pallet Height	Maximum - 1.3 Meter	

Quality Standards

UMC follows stringent quality specifications in accordance with the below mentioned standards to meet the customer quality requirements.

AAMA
ECCA
ASTM
ISO
SASO
NCS
EN
DIN



UMC has a modern in-house laboratory to conduct all necessary Mechanical and Paint Test such as

Salt Spray/ corrosion Test
QUV Weathering Test
Ericcson Cupping Test
Impact Test
Cross Hatch Test
Color Cabinet Test
Boiling Water Temp Test
Taber Abrasion Testing
Pencil Hardness Testing
Bend Test/ Conical Mandrel Test
Scratch Resistance
BYK 45 Spectrometer
Data Color Spectrometer with color matching software
Roughness Ra Tester
Fisher Coating Guage
Gloss Meter



UMC conducts regularly long-term tests such as Salt Spray, Humidity, UV Weather Testing and Florida Exposure testing to ensure long term properties of products supplied to our customer.





UMC Team



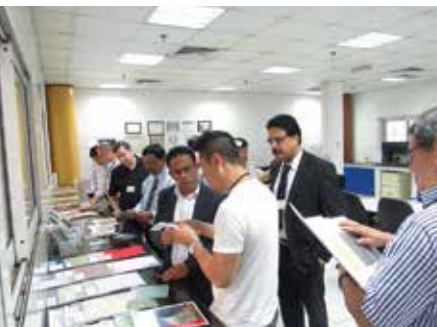
Aluminum Exhibition: Dusseldorf



Automatic Paint Mixing Station



Technical Seminar



Customer Discussion



Conference



Technical Discussion

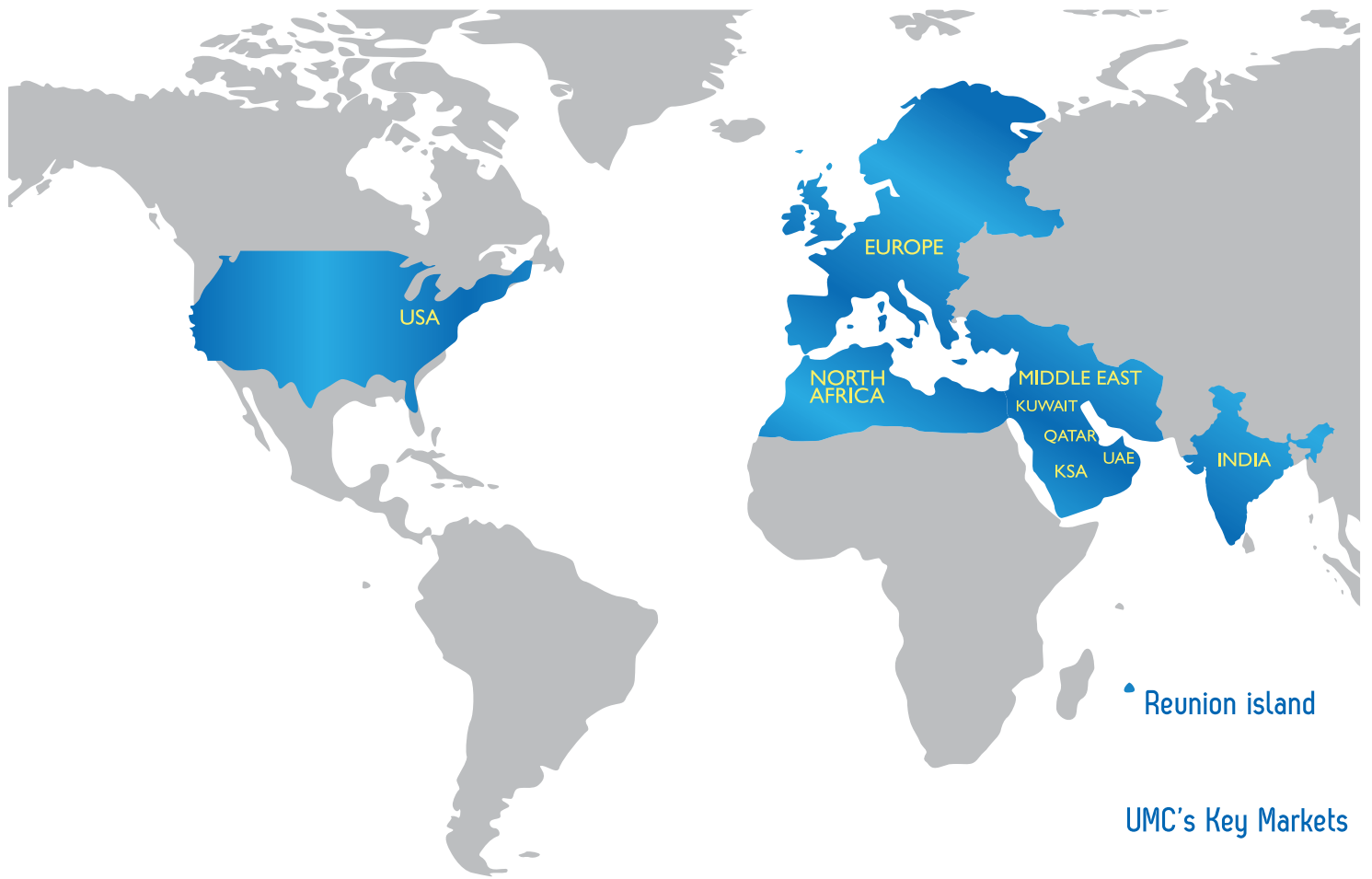




Environment Friendly

UMC has firm commitment towards maintaining ecofriendly environment. This is the key reason for installing the most sophisticated Thermal Oxidizer (TNO) from Germany to burn the solvents completely generated from the production and thus leaving no room for atmospheric pollution.

UMC created the first of its kind cradle-to-gate ISO 14025 and EN15804 compliant EPD in September 2018. This shows the determined effort for transparency and sustainability of UMC.



Strategic Location

UMC's strategic location is also a key element in its success. Dubai has become a major trade hub strategically located at the heart of the Middle East well connected by Sea, Land & Air.





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* Disclaimer: Application images included in this catalogue are intended for exhibiting generic sample applications of pre-painted coils.