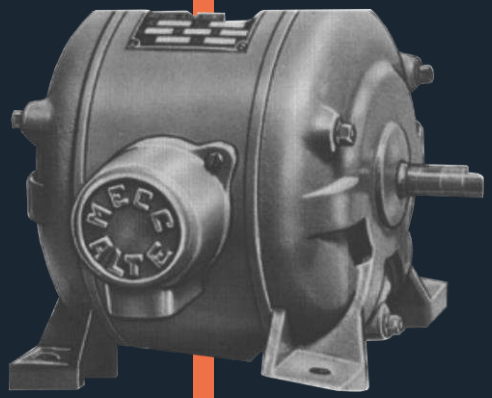

mecc alte
WE ARE
MECC ALTE
ALTERNATOR SPECIALISTS
POWER FROM WITHIN



1947

# WHERE IT ALL BEGAN

The war’s over and much of Europe is in ruins. But that doesn’t stop an optimist with a vision. The business is born. Established by Mario Carraro in 1947 in Alte, Vicenza, Italy, as a repair workshop for electric motors.




SKIP TIMELINE

# THE 70S

A decade that started with hippies and ended with the raw energy in music from The Ramones, Sex Pistols, and others. Other highlights: the opening of Disney World, the Watergate scandal, Jaws at the movies and the launch of pocket calculators. As our business grew we moved to a specialist production facility in Creazzo, Vicenza where our headquarters and main factory remain today.





1978

SKIP TIMELINE

1988







# AN ERA OF GAMING

With Pac-Man and the launch of the Gameboy and IBM's first PC as well as the birth of Apple with the first Macintosh. We upped our game, too, investing in the opening of Zanardi to manufacture specialist alternators and welders.

SKIP TIMELINE

# 1997

The 90s brought us Super Nintendo, political unrest, embarrassing affairs and Royal divorces. Tom Hanks became Forrest Gump and we drank Sunny D – until we found out it turned us orange. Our 90s highlight: the opening of our UK factory in Oakham to produce up to 2,500kVA.




# ‘RUN FORREST ...RUN’



SKIP TIMELINE

# INCREASED GROUP CAPACITY

2007

Apple Inc releases its first iPhone. With the opening of our China facility, we increase our group capacity to 4 pole, 7 –3,000kVA. Full manufacturer, winding and quality approval enables us to supply products into the Asian market.



SKIP TIMELINE

# KEEPING OUR COOL

The end of the ‘Noughties was dominated by the after-effects of the financial crash of 2008. But, while the world was in turmoil we kept a cool head and looked to the future. In 2010, we established our Indian manufacturing operations, producing 2-4 pole industrial machines, 2-750kVA with fast leadtimes and stocks to support local markets.




2010

SKIP TIMELINE

2022 has been a year like no other. Economic, environmental and geopolitical turmoil with floods and droughts around the world, and the population exceeds 8 billion. Plus a year that saw the death of the UK's Queen Elizabeth II and the invasion of Ukraine by Russia.

Mecc Alte launched The Easy ZONE supplying alternators, controllers, battery chargers and controllers – offering its customers a totally 'integrated genset solution' as it reached its 75th anniversary.



# INTEGRATED GENSET SOLUTIONS SUPPLIER

2022

SKIP TIMELINE

75 YEARS 1947 - 2022

# kVA

**WE ARE A WORLDWIDE GROUP PROVIDING WORLD-CLASS ALTERNATOR SOLUTIONS WITH MANUFACTURING IN**



## ITALY



| | |
|---|---|
| LV 4 POLES | 3.5kVA - 5,000kVA |
| LV 2 POLES | 1kVA - 500kVA |
| HV | 800kVA - 5,000kVA |

## UK



| | |
|---|---|
| LV 4 POLES | 5kVA - 3,000kVA |

## CHINA



| | |
|---|---|
| LV 4 POLES | 5kVA - 5,000kVA |
| LV 2 POLES | 13.5kVA - 100kVA |
| HV | 800kVA - 5,000kVA |

## INDIA



| | |
|---|---|
| LV 4 POLES | 5kVA - 750kVA |
| LV 2 POLES | 1kVA - 100kVA |

# MARKET INVESTMENT

## CONTINUED INVESTMENT DRIVING GROWTH



### SUPPORTING YEAR ON YEAR GROWTH




### TOTAL INVESTMENT IN LAST TEN YEARS

€150 MILLION



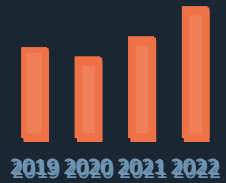
### FAMILY OWNED

3RD GENERATION



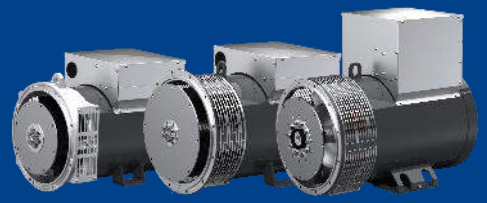
### TOTAL TURNOVER 2022

€133 MILLION



# C-TYPE ALTERNATORS

mecc alte



ECP28 A - ECP32 B - ECP34 A



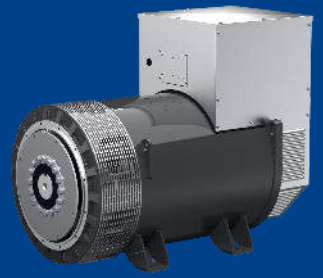
NPE32



ECP3



ECO38 A



ECO40 B

2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023









ECP28 C | ECP32 C | ECP34 C | NPE32 C





ECP3 C | ECO38 C



ECO40 C





ECP4 C | ECP30 C

# X-TYPE

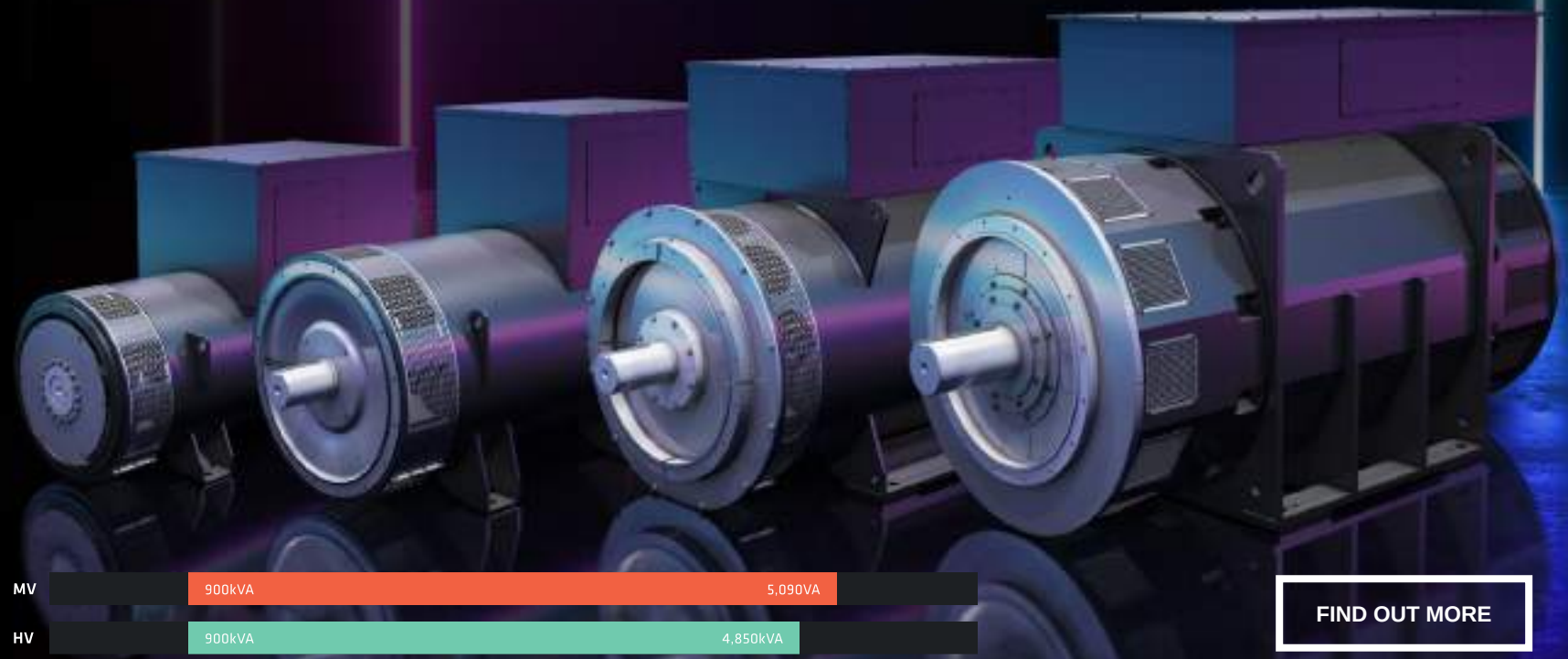
## PERFORMANCE IN **4 DIMENSIONS**

The new X-Type Series delivers high voltage dynamic performance with class-leading durability and efficiency in a flexible product range.

With a complete focus on high power products, our specialist Power Products division develops world-class alternators for medium to high voltage power classes.

Working alongside our customers, we provide extensive support and cross-industry experience to create customised power solutions.

We guarantee peace of mind through proven reliability and consistent performance.






## PRODUCTS

- INDUSTRIAL
- MARINE
- PORTABLE
- ZANARDI
- TE34
- 400Hz
- **X-TYPE**
- IP55 IC611/IC616 4A CA MV/HV
- THE EASY ZONE
- THE ONE

mecc alte MEDIUM VOLTAGE

mecc alte HIGH VOLTAGE

mecc alte Power Products

FIND OUT MORE | BROCHURE | VIDEO



# IP55 IC611/IC616 4A CA MV/HV

## AIR-TO-AIR HEAT EXCHANGER COOLING SYSTEM

Suitable for gas and oil applications.

Mecc Alte has been awarded with the ADNOC qualification



FIND OUT MORE

## PRODUCTS


INDUSTRIAL

MARINE

PORTABLE

ZANARDI

**TE34**

400Hz

X-TYPE

IP55 IC611/IC616 4A CA MV/HV

THE EASY ZONE

THE ONE

# CHINESE MANUFACTURING

**Mecc Alte China**

Industrial machines

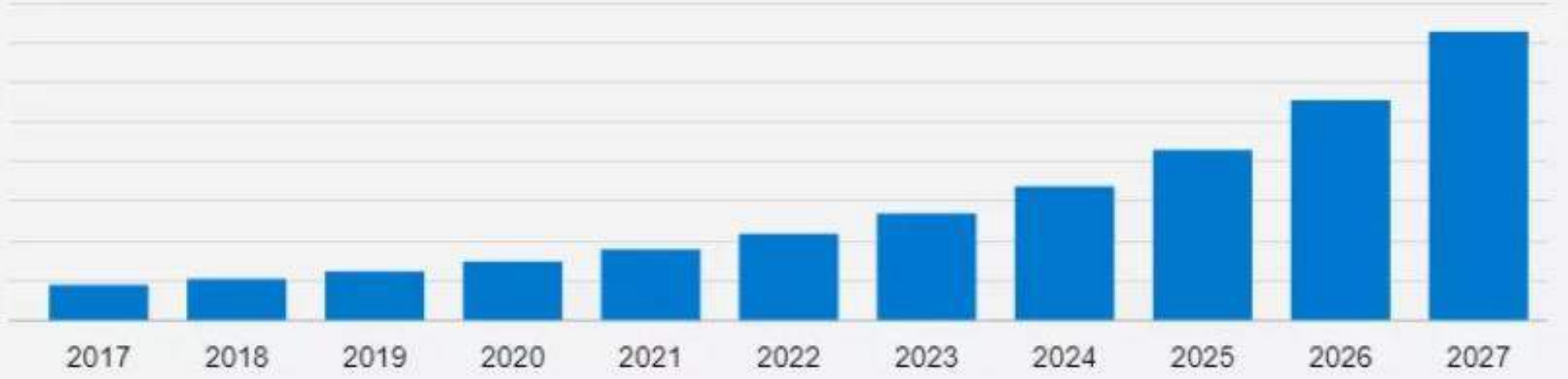
- 7 –5,000kVA LV, MV and HV
- 23,300 sq.m.
- 220 personnel

- **Leading edge manufacturing Mecc Alte leads the competition with the same worldwide quality product**
- **Advanced computerised quality control**
- **Top level VPI impregnation systems**
- **Advanced automatic impregnation and protection vercoating**



# DATA CENTER – CHINA TREND

## Market Size Outlook (USD Million)




2017 : USD **17,807.43**

**23.47%**
Year-over-Year growth rate of 2023

**27.22%**
CAGR 2022-2027

**ACCELERATING**
Growth Momentum




USD 101794 Mr
Market size growth

## RECENT INVESTMENTS IN MAHL: EXTENSION OF HV

10MUSD capital increase
New building, 5000M^2
MAPP is the Business Unit of Mecc Alte SPA
Introduction of Low,  medium and high voltage alternators from 800 kVA to 5MVA up to 13,8kV.
Medium and High Voltage alternators.

The X-TYPE Series



## INDUSTRIAL ALTERNATORS STANDARD SERIES

The new Medium & High voltage X-TYPE series includes 4 standard machines families ready for the genset market:

- ECO43 – MV&HV
- ECO46 – MV&HV
- ECO47 – MV&HV
- ECO49 – MV&HV







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# HUAWEI DATA CENTER – CHINA PROJECT

| | |
|---|---|
| DESCRIPTION | DATA CENTER – CHINA PROJECT, JINING AREA |
| SCOPE OF SUPPLY | NO. 4 - ECO46HV- 3VL / 10.5KV - 50HZ – 2300 KVA |
| | NO. 2 - ECO46HV- 2VL / 10.5KV - 50HZ – 2300 KVA |



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THANK YOU
THE END

# ITALIAN MANUFACTURING



**Mecc Alte Spa 1**

Wound stators for industrial range, machined components

- 13,700 sq.m.
- 153 personnel

**Mecc Alte Spa 2**

Assembly, text, painting, despatch (industrial range to 2500kVA)

- 6,100 sq.m.
- 82 personnel

**Mecc Alte Spa 3**

Rotor and exciter production (Industrial range)

- 2,650 sq.m.
- 46 personnel

**Mecc Alte Spa 4**

Frames and other steel construction components (industrial range)

- 1,200 sq.m.
- 9 personnel

**Mecc Alte Portable**

'Portable' alternators up to 18kVA

- 6,750 sq.m.
- 67 personnel

**Zanardi**

Special machines and welders

- 4,000 sq.m.
- 37 personnel

MADE IN ITALY

VIDEO

# ZANARDI




**Zanardi**

PMG power range

1,5-40 kW 2000-3,000rpm or fixed speed

Welder generators –

AC 2 pole 130-210 amp / DC 2 and 4 pole 170-500 amp

- Provide world-class welding generators and customised power solutions
- Leading exponent of quality design
- Ability to customise products
- All welders fully designed and tested in-house

MADE IN ITALY

# POWER PRODUCTS



mecc alte
Power Products

**Power Products**

Alternators: LV up to 690V/MV up to 7,200V/HV up to 13,800V

Synchronous alternators 10MVA/380-15,000V 32 pole

Asynchronous alternators up to 770 kW

PMG up to 500 kW

- 2,600 sq.m.

- Leading edge manufacturing Mecc Alte leads the competition with the same worldwide quality product
- Focus on MV and HV products for power generation
- Synchronous and asynchronous generators suitable for hydropower applications
- Separate circuit cooling by air or water is available

MADE IN ITALY

# PORTABLE

mecc alte
Portable

**Portable**

Portable alternators 2 pole
1-12 kVA

- Leading edge manufacturing Mecc Alte leads the competition with the same worldwide quality product
- 1 phase brushless capacitor excited units with optional AVR or Brush + AVR
- 3 phase with slipring compound control or Brush + AVR

MADE IN
ITALY

# VECO MANUFACTURING



**VECO Spa**

**Dedicated to the blanking of magnetic laminations to produce rotors and stators for electrical equipment.**

**Backward and vertical integration allows greater control of supply chains and for that reason Mecc Alte acquired 100% ownership in order to improve supply chain efficiency, minimise costs and gain strategic advantages over competitors.**

- 19,000 sq.m. (7,500 sq.m. covered + 11,500 sq.m uncovered).
- 44 personnel
- €23,620,968 Revenue 2021

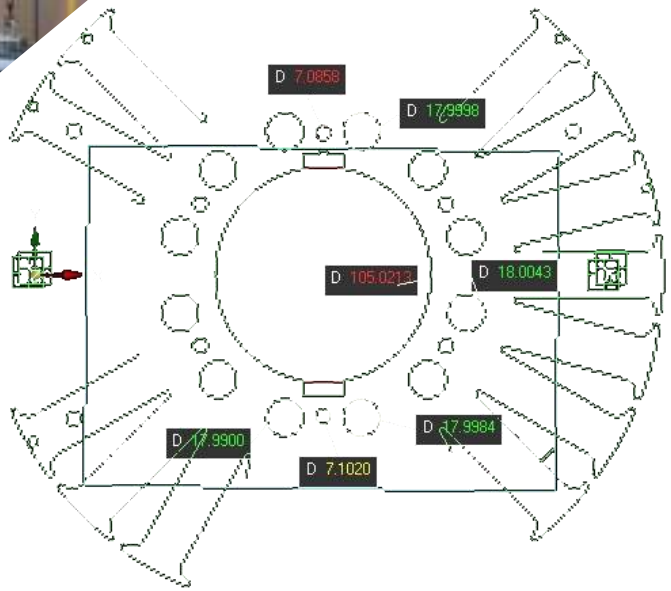
- Lamination blanking, stamping and notching
- Die manufacturing and maintenance
- Rotor and stator stacking, utilising multiple technologies and techniques
- Damper cage welding and pressure die casting
- Quick growth of over 50% since 2020
- High capacity plant, can produce large volume of standard lamination
- Adds value to Mecc Alte group by providing access to its lamination research and database that provides the opportunity to manufacture bespoke laminations for specialised products

Veco














# VECO MANUFACTURING

## COMPLETE CONTROL



# UK MANUFACTURING

**Mecc Alte UK**

7.8 -2,800kVA

Factory size 7,500 sq.m

153 employees

Capacity 135 units per day

- Marine test capability up to 700 kVA
- Full ISO accreditation
- Full UL accreditation
- Ability for customised products
- Advanced VPI and severe environment protection systems

MADE IN THE UK

VIDEO



# INDIAN MANUFACTURING

**Mecc Alte India**

2-4 pole Industrial machines 2 -750kVA

- 40,395 sq.m.
- 240 personnel

- **Leading edge manufacturing Mecc Alte leads the competition with the same worldwide quality product**
- **Fully automated rotor winding machine**
- **Fully automated exciter winding machine**
- **Advanced computerised quality control**

MADE IN INDIA