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About EMCO

Tomorrow's world is an exciting space filled with opportunities for EMCO. The US\$600 billion Indian Power story which is projecting an anticipated demand of over 315GW by 2017, is an opportunity that is spanning out as one of immense potential, a fact which world majors have already understood and have started making their strategic presence felt. It is in this arena that EMCO with its indigenous technology with demonstrated capabilities & strategic tie-ups with world renowned co's brings in an unbeatable combination of experience, youth and partnership.

EMCO fosters a culture that foresees the future and responds pro actively to its challenges, while delivering maximum value to our customers through technology, quality and service. A vital combination of vision, passion, ambition, adaptability, adoption of new generation technology, value centricity and people focus has fuelled the commendable growth exhibited by EMCO in the last decade.

EMCO, established in 1964, has evolved itself into a formidable force in the power sector in India. It is re-energized, re-engineered and raring to go, not only to live up to the dynamic changes and challenges in the domestic and global markets but also to carve a niche of its own in all segments of the power sector. By constructing a compelling technological foundation, backed by consistent in-house R & D support, EMCO is enhancing its product quality and developing new features, thus building new inroads for products & solutions in the global market.

EMCO has 5 state-of-the-art manufacturing plants at Thane, Jalgaon, Dadra, Vadodara, and 15 offices across India. All products are manufactured under ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 certified plants as per IEC, ANSI, BS and other international standards. EMCO has a strong technology framework, with in-house R&D & International Advisory Board on Technology (IABT), spearheading various initiatives to optimise power transmission and distribution through cutting-edge technology. EMCO provides solutions and products for power generation, transmission, distribution and industry in India and over 40 countries worldwide.

Having already expanded its operations in various countries, EMCO looks positively towards widening its presence globally. EMCO's international division offers single point access to all its global customers for its products and services. This focused attention has lead to EMCO's success in the Global market. EMCO has been ever persistent towards meeting international quality standards, ensuring highest level of compliance to quality, environment, health and safety which explains it's outstanding global reputation.

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Products and Solutions for Power Generation, Transmission, Distribution Utilities and Industry



Transformers



Substations



Transmission
Towers and lines



Smart Meters



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Brand EMCO

When a company foresees challenges and is forever ready to respond pro-actively, it reflects the strength of their foundation. And this forward-thinking culture has transformed us at EMCO from a transformer manufacturer into one of India's leading solutions and products provider in power generation, transmission, distribution and industry. With our spirited workforce, versatile approach and people-driven relationships, EMCO addresses the future by empowering next-gen ideas and a culture of doing things differently, something which we practice as a principle and share with our ecosystem. Something we call 'inspired by tomorrow'.

'the passion to innovate, the passion to seek more than solutions, the passion to stretch the limits of possibility'

As a young, dynamic enterprise, we constantly seek to innovate & surpass our past achievements and discover newer, better means to address challenges. Be it problem-solving, customer satisfaction or research, EMCO is geared to respond promptly with utmost dedication and an undying spirit of enthusiasm that inspires and unifies us while giving our customers a unique advantage.

'the spirit of enterprise, the versatility and willingness to adapt to any challenge'

A culture that encourages and enables all emcoites to participate as team members and take initiative - this spirit of entrepreneurship is a key milestone of EMCO's brand philosophy. Embracing new ideas and new means has been instrumental in our rise and will continue to define our approach. This culture of shared responsibility has given EMCO an unmatched reputation, while winning the trust and goodwill of our customers and partners.

'integrating fresh perspectives, encouraging young talent and seeking compelling solutions'

To stay ahead of the times and match the pace of change, EMCO has consciously inculcated a culture that encourages new, fresh perspectives. This is the cornerstone of our inspiration from the future, which only the young generation can bring. In a constantly-evolving global and environmental landscape, it is imperative to re-assess old modules and modify them to meet present and the future needs. EMCO encourages original, even offbeat ideas and practices, unbound by rigid procedures.

'resourcefulness and state-of-the-art mechanisms to reduce wastage and maximise output'

In the spirit of implementing innovative, new-age solutions, EMCO integrates state-of-the-art cutting edge technology. Not only does it ensure better efficiency of output, but also reduced wastage and smarter resource utilisation. This has been made possible because we have consistently blended these practices in our attitude and our beliefs.

'a commitment to the future, of honesty, integrity and superlative value'

While promise of the future beckons our youth, they also face an imminent threat of healthy survival if global lifestyle and corporate practices continue as is. It is with this potent concern that EMCO commits itself to greater sustainability, green practices and reduced carbon footprint. This spirit of a conscious, mindful approach simultaneously extends to our work ethic. Honest, time-honored and reliable partnerships that continually deliver superior quality.

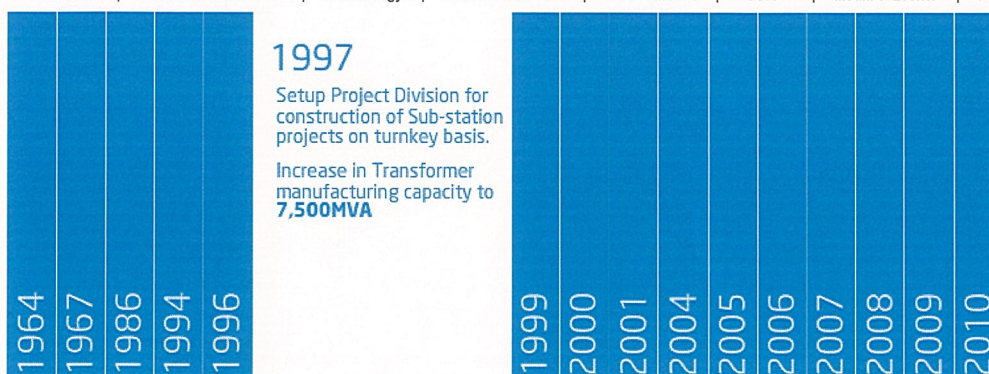
'Valuing and engaging our richest resource above all others: our people'

We at EMCO seek to deliver outstanding, customised solutions, and this is made possible by nurturing meaningful relationships with all partners, whereby we grow together, develop an insight into each of them and address their unique needs. This pro-people culture equally values employees and team partners. The brand relies on and holds its people resource in the highest regard, and it is rightfully part of our vision statement to create a great place to work. A human, approachable brand personality has enabled us to make this vision a success.

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History

1964 Year of Incorporation.

1967 Listed on Bombay Stock Exchange.

1986 Change in Management comprising new team of Rajesh S. Jain & Shailesh S. Jain.

1994 Setup Industrial Transformers manufacturing facility at Jalgaon.

1996 Increase in capacity of Transformer manufacturing capacity from 900MVA to 3,000MVA.

1997 Setup Project Division for construction of Sub-station projects on turnkey basis.

1997 Increase in Transformer manufacturing capacity to 7,500MVA.

1999 Started state-of-the-art facility at Thane for manufacturing of electronic energy meters.

2000 Setup state-of-the-art facility for manufacturing electronic energy meters in Dadra.

2001 Setup International Business Division.

2004 Setup Distribution Transformer manufacturing facility at Jalgaon.

2005 Ventured into Power Generation Business.

2006 Increased Transformer manufacturing capacity to 10,000MVA.

2006 Started manufacturing of Active Harmonic Filters.

2007 Formed an International Advisory Board on Technology and setup a Govt. recognised R&D centre.

2007 Setup EMCO Foundation.

2007 Ventured into Renewable Energy.

2007 Inauguration of 'Knowledge Centre'- a new training centre for staff.

2007 Acquired Transmission Line Company.

2008 Increased Transformer manufacturing capacity to 20,000 MVA.

2008 Acquired a coal mine in Indonesia.

2008 Formed a JV with Edison Group for Transformer business in South Africa.

2008 Honored with a coveted CII HR excellence Award for 'Commendation for strong Commitment to HR excellence'.

2008 Projects Division received ISO 9001:2000 Certification for its On-site and Off-site operations.

2009 Ranked 9th as per Total Income in the Power Equipment Sector by Dun & Bradstreet's India's Top 500 Companies.

2009 New Fabrication facility for manufacturing tanks at Jalgaon

2010 Successful Short Circuit testing of 315 MVA, 220kV class Generator Transformer at KEMA, The Netherlands.

2010 ISO/ IEC 27001:2005 Certification awarded for Information Security Management System (ISMS) by BVC to IT Department.

2011 Successful Short Circuit Testing of 315 MVA, 400/220/33 kV ICT at KEMA, The Netherlands .

2012 EMCO commissions its 5 MW Photovoltaic Solar Power Plant successfully at Village Fatepur in Surendranagar district of Gujarat.

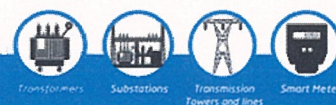
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TYPE OF METERS						
PARAMETERS	Residential 1-phase	Residential/Commercial 1-phase	Residential/Commercial 3-phase	Industrial 3-phase	DIN rail 1-phase	DIN rail 3-phase
Accuracy Class	1.0	1.0	1.0	1.0 / 0.5	1.0	1.0
Measurement						
Active Energy	✓	✓	✓	✓	✓	✓
Reactive Energy		✓	✓	✓		✓
Apparent Energy			✓	✓		
Bi-directional/4-quadrant			✓	✓		
Maximum demand	✓	✓	✓	✓	✓	✓
Time of use	✓	✓	✓	✓	✓	✓
Instantaneous parameters	✓	✓	✓	✓		
Other Features						
Load survey		✓	✓	✓		
Fraud monitoring	✓	✓	✓	✓		
Extreme magnetic immunity	✓	✓	✓	✓	✓	✓
Event logging	✓	✓	✓	✓		
Cover open logging	✓	✓	✓	✓		
Impulse Voltage	10 kV	12 kV	12 kV	12 kV	06 kV	06 kV
Electrical Parameters						
Nominal Voltage (P-N)	230/240V	230/240V	230/240V	63.50/240V	230/240V	230/240V
Current (Basic)	2.5A/5A/10A	2.5A/10A/5A/20A	5A/10A/20A	-1A or -15A	2.5A/5A/10A	5A/10A/20A
Current (Maximum)	Upto 40A	Upto 100A	Upto 100A	Upto 10A	Upto 80A	Upto 100A
Connection	2 wire	2 wire	4 wire	3 wire/4 wire	2 wire	4 wire
Frequency	50 Hz/60Hz	50 Hz/60Hz	50 Hz/60Hz	50 Hz/60Hz	50 Hz/60Hz	50 Hz/60Hz
Power supply	SMPS	SMPS	SMPS	SMPS	Trafo. Based	Trafo. Based
Meter reading without mains	✓	✓	✓	✓		
Mechanical						
Display	Backlit LCD	Backlit LCD	Backlit LCD	Backlit LCD	LCD	LCD
Installation (wall projection)	✓	✓	✓	✓	DIN Rail	DIN Rail
Dimensions (LxWxD)	130x100x70	185x130x73	273x170x80	273x170x80	100x35x65	130x76x65
Class of protection	IP-51	IP-51	IP-51	IP-51	IP-51	IP-51
Weight	0.5 kg	1 kg	1.8 kg	1.4 kg	0.3 kg	0.8 kg
Push button (display & reset)	✓	✓	✓	✓	✓	✓
Interfaces						
Optical	✓	✓	✓	✓	✓	✓
RS-232 (optional)	✓	✓	✓	✓		
RS-485 (optional)		✓	✓	✓	✓	✓
SD output (optional)		✓	✓	✓	✓	✓
Temperature range						
Operating	-25 C to +50 C	-25 C to +50 C	-25 C to +50 C	-25 C to +50 C	-25 C to +50 C	-25 C to +50 C
Storage	-40 C to +70 C	-40 C to +70 C	-40 C to +70 C	-40 C to +70 C	-40 C to +70 C	-40 C to +70 C

Note: 1. Meters listed above are our standard product versions. We also offer Customised products and solutions. 2. These Products are also available with optional AMR / AMI interfaces and other optional add-ons. 3. Product specification are subject to change as they are under continuous enhancements. 4. Meters offered comply with IEC 62052-11, IEC 62053-21, IEC 62053-22, IS-13779, IS-14667. 5. Apart from Energy Meters EMCO also offers complete meter accessories like Hand held meter reading instruments, Optical communication Probe, Data Concentrator Units, Modules of different configuration, Meter Box etc.

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Meters

Miles ahead in Metering

EMCO is synonymous with smart, accurate, reliable, tamper-proof and modern metering technology. Its static energy meters and metering solutions are technological marvels that incorporate the latest innovations to enable power distribution companies operate with greater efficiency. Due to their superior performance and value added features, these meters and metering solutions are being used for distribution reforms.

EMCO meters exceed the requirements listed in the national and International standards and provide solutions up to class 0.5 accuracy. The company is at the forefront of metering technology offering customer futuristic solutions such as Automatic Meter Reading (AMR) and Advance Metering Infrastructure (AMI).

EMCO metering products covers application range of metering requirement such as Residential, Commercial, Industrial and Special purpose applications. Our solution supports communication via different media e.g. Radio Frequency, GSM, GPRS, CDMA, PLC etc. Our manufacturing facility is certified for ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007. All products are produced under strict quality control and automated processes.

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Available Meters



Residential 1-phase



Residential/Commercial 1-phase



Residential/Commercial 3-phase



Industrial 3-phase



DIN Rail 1-phase



DIN Rail 3-phase

[COMPARE EMCO METERS](#)

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POWER TRANSFORMER

EMCO's Power Transformer range extends up to 780 MVA, 400kV class, catering to various application needs as shown under

TRANSFORMER TYPE	POWER RANGE	HIGHEST VOLTAGE	APPLICATIONS							
			Generation	Transmission	Distribution	Industrial	Steel	Traction	Locomotive	Oil, Gas & Petrochemical
Generation (GSU)	10 - 780 MVA	400 kV	✓			✓				✓
System	20 - 200 MVA	220 kV		✓		✓	✓			✓
Interconnecting	25 - 500 MVA	400 kV		✓						
Furnace	1.6 - 63 MVA	52 kV				✓	✓			
Rectifier	Up to 160 kA	52 kV				✓		✓		✓
Traction	20 - 42 MVA	220 kV						✓		
Locomotive	Up to 7.5 MVA	27.5 kV							✓	
Distribution	0.3 - 15 MVA	33 kV			✓	✓	✓			✓
Packaged Substation	315 - 1500 kVA	11 kV			✓	✓	✓			✓
Pole Top	10 - 400 kVA	11 kV			✓	✓				
Shunt & Service Reactors	0.25 - 1.2 MVAR	11 kV			✓	✓				✓

Most advanced software packages are used for design verification to ensure high standard of product reliability in service. The state-of-the-art power transformer manufacturing plant is equipped with sophisticated facilities such as Vertical Winding machines, Vapour Phase Drying Process Plants and 200T EOT crane, besides advanced testing facilities and a modern Oil testing facility. A modern in-house tank fabrication facility ensures aesthetics and painting quality of fabricated items. Further in order to ensure consistent product quality, well documented systems are in place defining standard operating procedures and process norms, matching world class industry practices. EMCO has successfully carried out short-circuit test on various capacity transformers covering upto 315 MVA, 220kV Generator Transformer, 315MVA, 400kV Auto Transformer and 42MVA, 220kV Traction Transformer. EMCO has been persistent towards meeting international quality standards and has developed the expertise for supplying transformers conforming with various international standards like IEC, ANSI, DIN, SANS etc.



Type: Generator Transformers, Station Transformers, Unit Auxiliary Transformers, System Transformers, Interconnecting Transformers and Multi-winding Transformers for specific needs

Rating: Upto 700MVA

Voltage: Upto 400kV

Cooling: ONAN/ONAF/OFAF/OFWF

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