



# ITM Company Information

Rev.1.0\_2024.04.22

# Presentation Outline



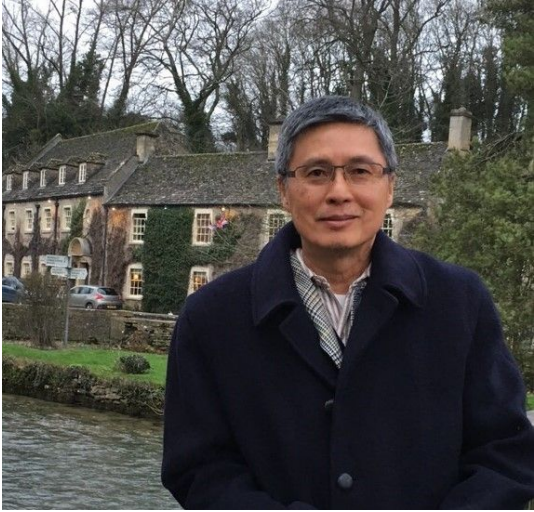
## Presenter

Mr. Thumrongdej Mungcharoen

## Presentation Outline

- Background of Presenter
- About ITM
- Service
- Product
- Major reference lists

# Background of Presenter



Thumrongdej Mungcharoen is the managing director and founder of ITM Capacitor Company Limited (ITM), the leading supplier of Capacitor Banks and Harmonic Filter Systems in Thailand and neighbor countries.

We have provided engineering, service and product support to Industrial, commercial, renewable and utility power systems by ITM for over 20 years.

Mr. Thumrongdej M received B.Eng. in electrical engineering from Chulalongkorn University and Master of Management from SASIN Thailand.

He used to work as an electrical engineer at Provincial Electricity Authority (PEA) and also worked as sales, design, Project engineer and managing director of ABB Distribution Co., Ltd. in Thailand.

# About ITM



**wöhner**

## Company Information:

ITM was founded in 2000, and signed a number of Distributorship Agreements with

- TDK Electronics AG, Germany (EPCOS Brand Name),
- Wöhner GmbH, Germany and

We offer our customers standard components, network analysis and solutions to save energy and to improve power quality by reactive power compensation and harmonic filtering.

## Company Values:

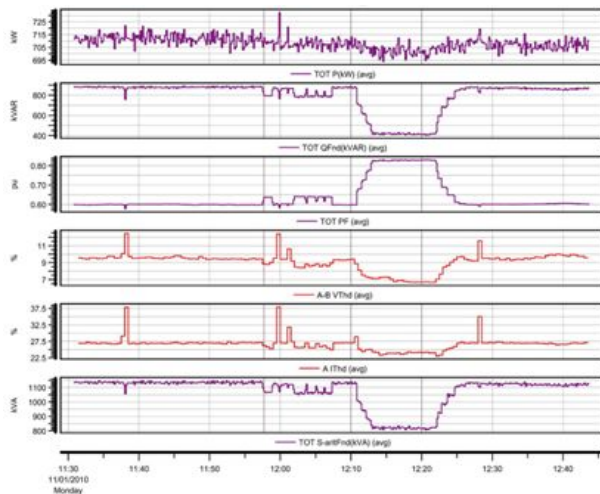
Our ambition is to establish and run a quality-minded engineering company that you can trust and rely on. Much effort has been put to provide products, services and solutions that customers will receive the best value and highest quality.

# ITM Services



Insufficient power quality leads to:

- High energy consumption and costs
- Power losses in the network
- Higher transformer and cable losses
- Increased voltage drop
- Production failure
- Malfunction of electric controls
- Tripping of CBs and fuses
- Capacitors damaged



ITM has provided services and solutions to save energy and improve power quality by:

- Performing PQ measurements
- Performing Network analysis
- Performing Design system solutions
- Providing Reactive power compensations
- Renovating existing capacitor banks
- Providing harmonic filters

# TDK–EPCOS–SIEMENS Company Information

Siemens invented MKK Capacitors in Heidenheim



Siemens Matsushita Components



TDK is the parent company of EPCOS

No change to the products that bear the EPCOS brand



1847

Establishment of Siemens in Berlin Germany



1947

Establishment of Siemens Matsushita Components GmbH, Germany

1989

Establishment of EPCOS AG, Germany

(EPCOS AG is the legal successor to Siemens Matsushita Components GmbH)

1999

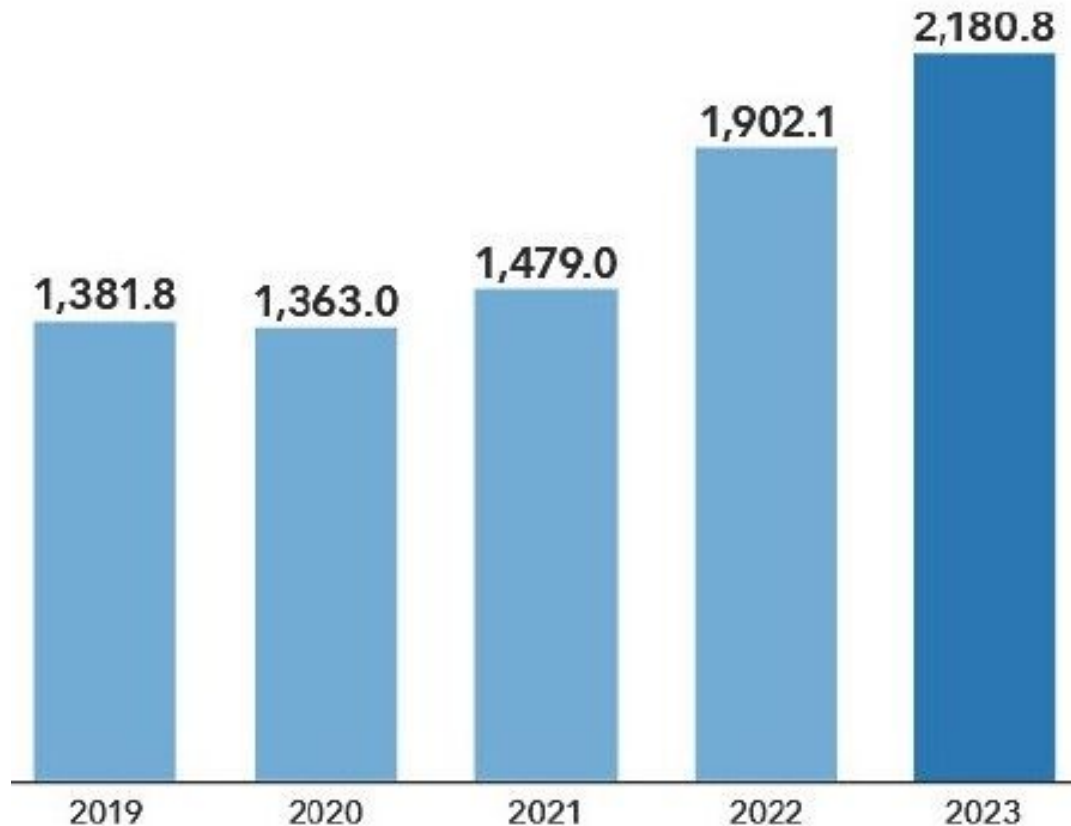
2009



2023

# TDK-EPCOS Company Information

TDK Electronics in Heidenheim | TDK Electronics - TDK Europe



## TDK – a Global Player

- Headquarter: Tokyo, Japan
- Product brands: TDK, EPCOS, InvenSense, Micronas, Tronics and TDK-Lambda
- Sales of about JPY 2,180 billion (USD 15.4 billion) in fiscal year 2023 (ending March 31)
- Extensive R&D, manufacturing and sales network

# EPCOS Product Information

## Superior Solutions for Power Factor Correction and Harmonic Filtering.

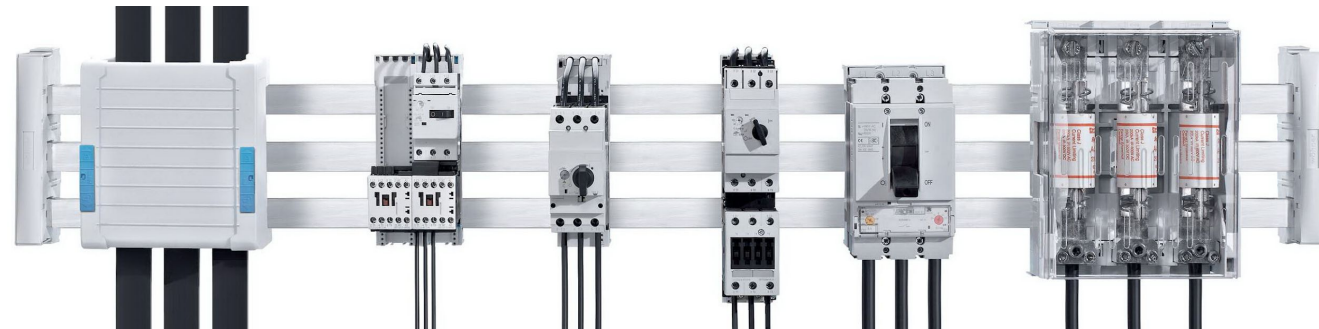
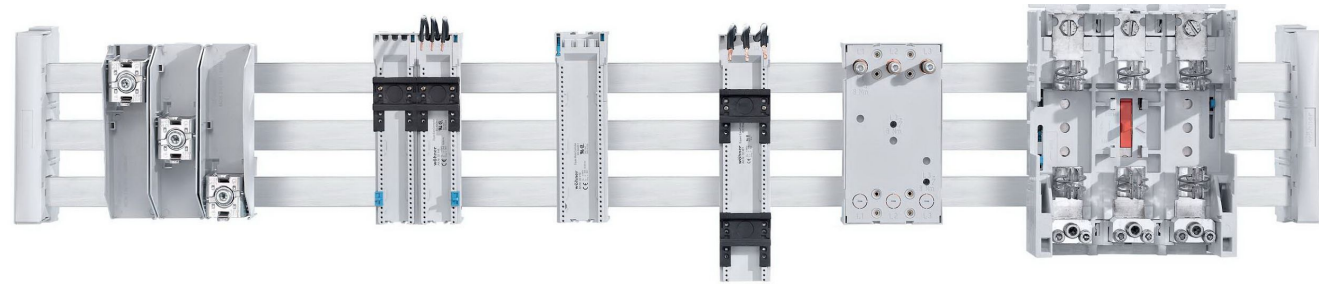
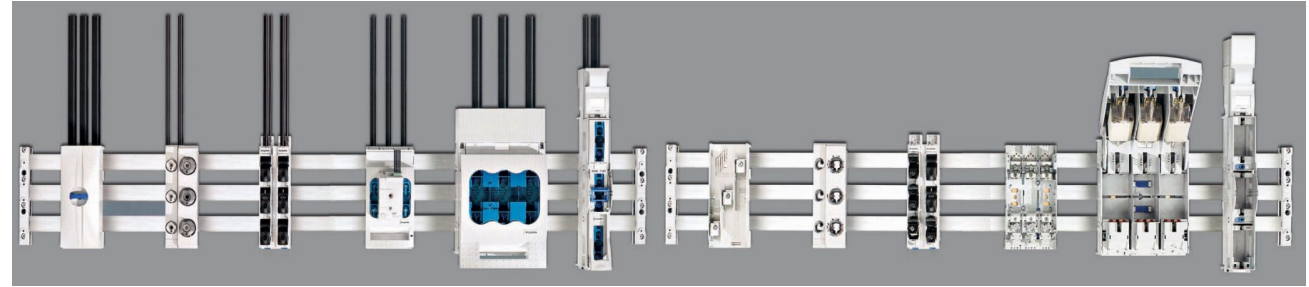


- PFC Capacitors
- Capacitor Contactors
- Thyristor Modules
- PF Controllers
- Detuned Reactors
- Static Var Generators (SVG)
- Active Harmonic Filters (AHF)



# Wöhner Company Information

- Founded in 1929 by Alfred Wöhner
- Head office in Rödental/Bavaria
- 12 subsidiaries/joint ventures
- Operations extend to 80 countries
- Over 100 registered patents
- Over 200 employees (worldwide)

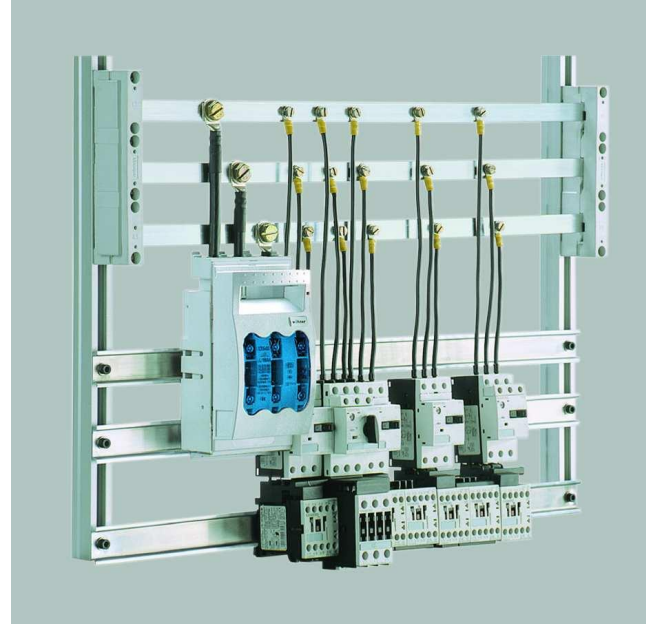


# Wöhner Product Information

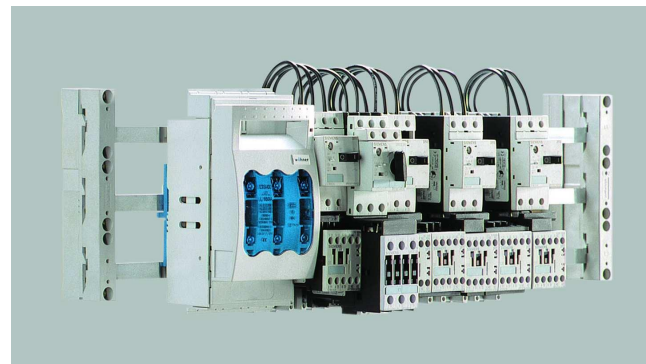


## CrossLink Technology

- patented plug technology
- economic pre-assembly of units
- shock-protected universal adapter



Traditional installation  
with busbar drillings



Innovative busbar-mounting  
systems with Clip on  
mounting components  
without busbar drillings

# Major Reference – LV Capacitors

- PTT Public Company Limited
- Aditya Birla Group
- Indorama Ventures
- Polyplex Thailand
- Siam Cement Group (SCG)
- SCG Chemicals and Packaging
- CPAC
- Thai Containers Group
- CPF
- Great Wall Motor
- Siam Industrial Wire - SIW
- Sang Som Co., Ltd.
- Thai Beverage
- Lao Brewery and Hongsa Power
- Boonrawd Brewery
- The Red Bull Beverage



# Major Reference – LV Capacitors

- One Bangkok
- Bank of Thailand
- MRTA
- Airports of Thailand
- Government Complex
- Police General Hospital
- Chulalongkorn Hospital
- Thai Airways – TG Hangar
- MEA
- EGAT
- Central Pattana
- Jamjuree Squire
- Big C, Carrefour, Lotus
- Home Pro, Do Home
- Krung Thai Bank
- Intercontinental Bangkok Hotel



# Major Reference – MV Capacitors

- Government Complex Commemorating His Majesty The King's 80th Birthday Anniversary, 5th December, B.E. 2550 (2007): MV Capacitors, Vacuum Contactors and Series Damping Reactors 2,100 kVAr 7.2 kV
- Forestias Project: MV Capacitors, Vacuum Contactors and Series Damping Reactors 3,600 kVAr 7.2 kV
- SCGP (Thai Cane Paper PLC – Prachinburi Plant): MV Capacitors (24 x 207 kVAr 2,500 V 1-ph 2-bushing and MV Detuned Reactors (4 x 775 kVAr 3300 V 7%)
- Double A (1991) PCL – Prachinburi Plant): MV Capacitors (4 x 550 kVAr 8,000 V 3-ph 3-bushing) and MV Detuned Reactors (4 x 400 kVAr 6,600 V 7%)



## Film Foil Oil Impregnated Capacitors

- MV & LV power capacitors
- MV surge capacitors
- MV DC energy storage capacitors
- MV & LV AC filter capacitors

- Technology : Non Self Healing
- Dielectric : Hazy Polypropylene
- Impregnant : Synthetic oil (PXE / Jarylec)
- Electrode : EFE Aluminium foil
- Bushings : Ceramic / Non-ceramic
- Can : CRCA / SS

