



**Power  
quality.  
Solved.**

Solving Power Quality Problems.  
Reducing Downtime. Improving Profitability.



# We set the benchmark for power quality.

We pride ourselves on engineering products that don't just work, but excel at delivering integrated solutions that are specifically designed for your application needs.

Our goal at MTE is to eliminate the worry and headaches caused by poor power quality. Beyond helping you bring power quality into compliance, our products increase efficiency, productivity, and equipment life.

**But most importantly, our solutions are proven to increase your bottom line.**





## Trusted by leading industries.

Trust isn't given, it's earned. Knowledge, expertise, support – this is how we've earned the trust of leading industries across the globe. In rural areas and major metropolitan cities, industries have relied on MTE to provide power quality and power management solutions... and we've delivered. Power quality issues can be complex and varied. We leverage our know-how to provide not just any solution, but the perfect solution customized to fit your industry and application.

That is something few others can offer.

Whatever the power quality problem,  
**MTE is the trusted solution.**

- Industrial automation
- Water/wastewater
- Healthcare
- Aerospace
- Training & simulation
- Agriculture & irrigation
- Transportation & logistics
- Oil & gas
- Mining
- Food & beverage
- Consumer goods
- HVAC

## Service and support above all.

MTE's trusted solutions come from a record of innovation. Through unparalleled service and support, MTE ensures you will receive the best products for your power quality problems. Our solutions are tested and certified to meet global agency requirements, and are manufactured in ISO certified facilities. Our team of trained and experienced professionals will help you throughout the entire process.

**From choosing the right product for your application to installation and ongoing support, MTE is with you.**



# Power quality solutions delivered around the globe. Peace of mind delivered to you.



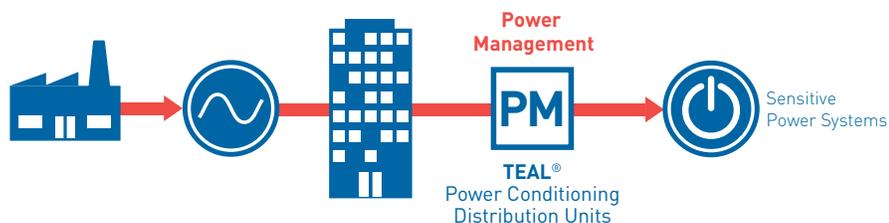
## Power Management

Today's electronic equipment – especially those in critical applications like healthcare, aerospace, and mass transit – require clean, consistent power for optimal performance. Even the slightest, millisecond disruption in power quality can jeopardize sensitive equipment, or lives. Our continuum of solutions includes power conditioning and distribution units (PCDUs) that offer integrated conditioning, distribution, and monitoring of power to protect equipment and maximize uptime.

**Power conditioning** protects equipment from lock-ups, false readings, or damage by mitigating disturbances in power including voltage spikes, surges, sags, EMI, transients, and high-frequency noise.

**Power conversion and distribution** allows source power to be converted and distributed by a low-impedance isolation transformer within the PDU to meet the varied power needs of equipment in your facility.

**Power monitoring** adds another level of confidence that equipment is getting clean, stable power by measuring and communicating data on voltage, current, transients, and harmonics. Setpoints and alerts can be added to automate responses to harmful power situations.





## Harmonic Filters

Non-linear power systems in Variable Frequency Drives (VFDs) and other uninterrupted power supplies can create harmonic distortions that cause overheated components, nuisance tripping of circuit breakers or inaccurate measurements on sensors – all of which waste time and money. MTE offers an array of harmonic mitigation solutions, including the best THID reduction solution on the market with our patented Adaptive Passive Technology, to increase productivity and system efficiency.



## Motor Protection

Variable Frequency Drives (VFDs) are used in a variety of industries to control the speed of AC motors. While VFDs allow for precise control of motors and greater energy savings, they also can create power distortions that cause premature motor failures, unexpected ground fault trips, and erratic behavior. We offer best-in-class protection for motors out to 15,000 ft. – even in the hottest, harshest, and most remote locations in the world – to increase productivity and your bottom line.



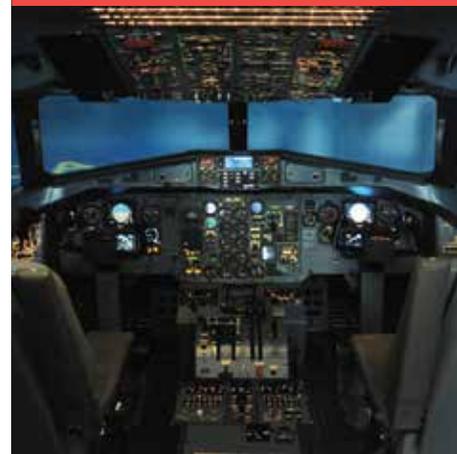
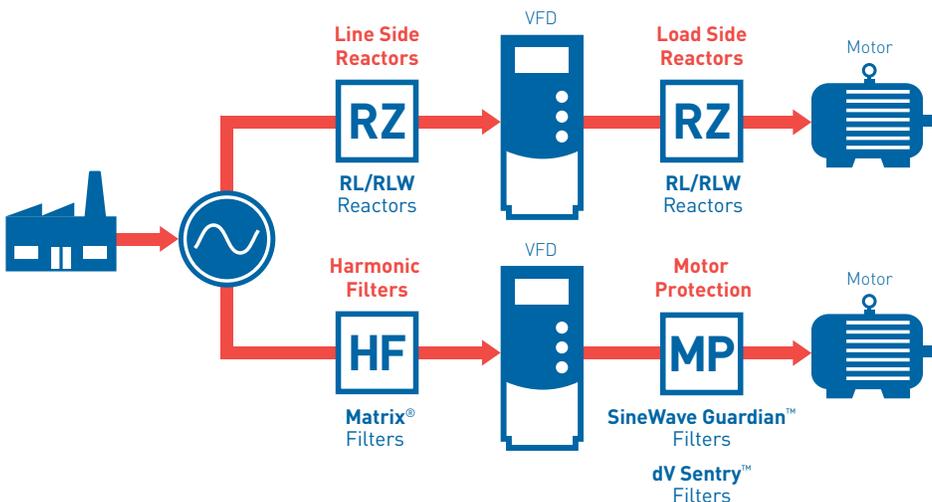
## Reactors

Our families of Line and Load Reactors are best-in-class with a long history of proven performance. They are unequalled in absorbing power line disturbances that can damage or shut down Variable Frequency Drives (VFDs), motors, or other sensitive equipment. They enhance productivity by reducing nuisance tripping, lowering harmonic distortion, and minimizing long lead effects.

## Identifying power quality problems.

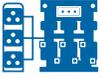
The effects of power quality issues can often be misdiagnosed as technical or equipment problems. If you experience any of the symptoms listed, contact MTE for solutions that will protect your operations and improve your bottom line.

- Overheated equipment
- Premature motor failure
- Nuisance tripping of circuit breakers
- Data loss
- Medical imaging artifacts
- System halts
- Flickering lights



# Our Products

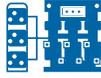
HF



## Matrix® AP

The Matrix® AP is the most advanced passive filter on the market to meet IEEE-519. Its patented Adaptive Passive Technology adapts to varying loads to virtually eliminate harmonics.

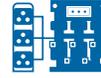
HF



## Matrix® ONE

Matrix® ONE single phase filters are optimized to work in remote and rural areas where three phase power is not available.

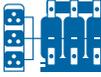
HF



## Matrix® APAX

Matrix® APAX provides an easy and affordable solution that helps reduce harmful side effects caused by harmonics.

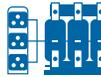
MP



## High Frequency SineWave Guardian™

The High Frequency SineWave Guardian™ is the market leading filter for protecting high frequency motors with its innovative technology and unequalled performance.

MP



## SineWave Guardian™

This best-in-class filter cleans up the PWM waveforms generated by VFDs. It virtually eliminates high frequency content and voltage peaks to reduce motor downtime.

MP



## dV Sentry™

The dV Sentry™ and its patented Triple Defense Core is proven to reduce common mode, protect against peak voltage, and reduce rise time – all in one unit.

RZ



## RL Reactors

The RL family of line and load reactors is unequalled in absorbing power line disturbances to reduce nuisance tripping, reduce harmonic distortion, and minimize long lead effects.

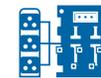
RZ



## RLW Reactors

The RLW family of line and load reactors provides an engineered solution to protect electrical systems against harmful and annoying power distortions.

HF



MP



RZ



## Custom Power Quality Solutions

MTE's innovations in solving power quality provide platforms for customized solutions that can be tailored to your applications and needs. Contact MTE for more details.

PM



## TEAL® Power Conditioning and Distribution Units

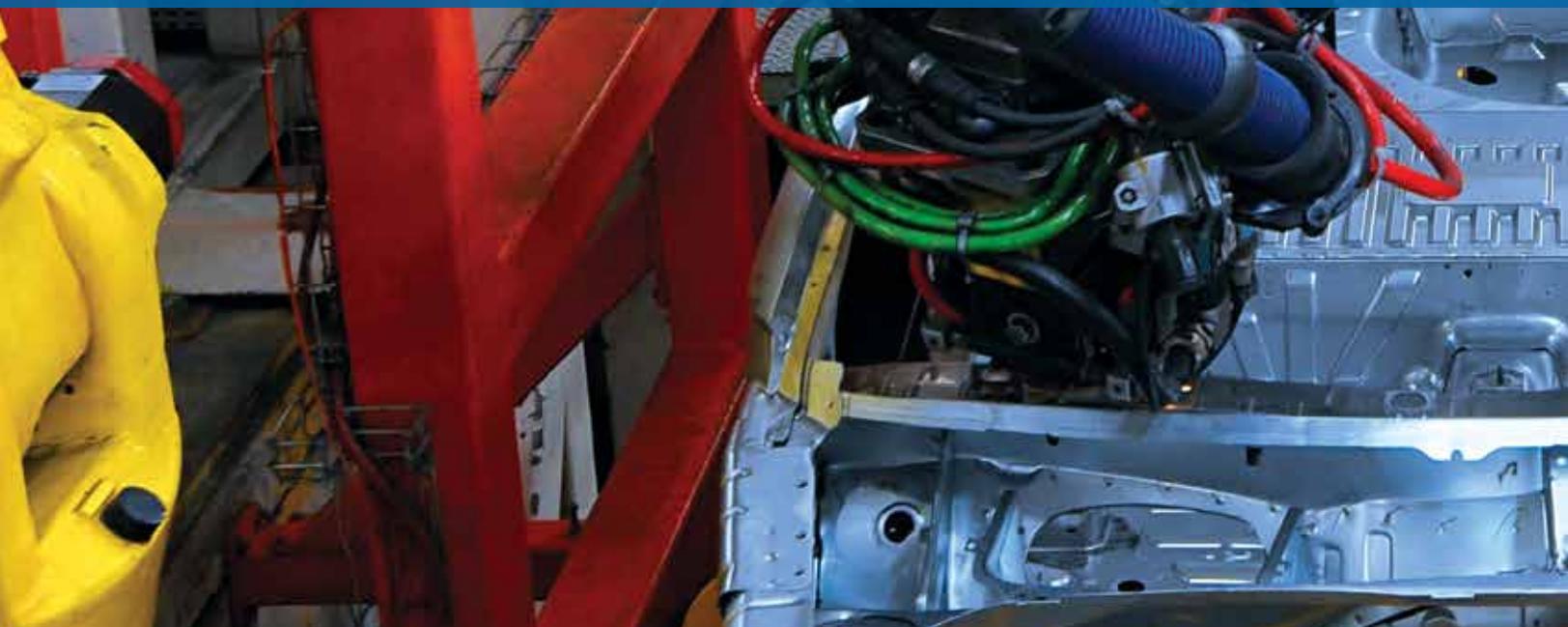
TEAL's Power Conditioning and Distribution Units (PCDUs) are recognized to improve power quality worldwide. Tailored to specific applications, no two solutions are exactly the same. As a result, we have emerged as a leader in power quality subsystem design with a growing toolbox of practical patents and proprietary methods that translates into a competitive advantage for you.



# Take advantage of our expertise.

The knowledge and experience we bring to every project takes the mystery out of power quality problems and delivers solutions that are tailored to your specific needs. Power quality issues may be complex, but the solution is easy – MTE.

[mtecorp.com](http://mtecorp.com)



# The power quality experts.

MTE Corporation was formed in 1982 by bringing together Milwaukee Transformer Co., Transformer Design Inc., and Milwaukee Electronics Corp. – companies that specialized in different fields of magnetics and transformer designs and were long established in their respective fields. MTE vaulted into a leadership role in power quality with its unique AC reactor design and passive filter expertise. We continued to grow as a global leader with innovative harmonic filters and motor protection filters.

With the addition of TEAL Electronics in 2016, MTE brings a continuum of power quality solutions unmatched in the industry. Building on TEAL's reputation of high-efficiency transformers and durable power conditioning and distribution units for demanding applications, MTE is building the best power quality company by capitalizing on the individual strength of each while bringing a new dimension in management, marketing, and quality.

Our team of professional design engineers has well over 100 years of collective experience in the industry and is complemented by as much experience in operations. Our engineers utilize state-of-the-art platforms and best-in-class simulation/modeling tools so that new designs meet your needs and the latest compliance standards while improving your bottom line.

**At MTE, we know power quality because power quality is all we do.**

## Steel Partners Holding L.P.

MTE is an operating company within the Diversified Industrial Segment of Steel Partners Holdings L.P. (NYSE: SPLP). Steel Partners is a global diversified holding company with operations in diversified industrial products, energy, defense, supply chain management and logistics, banking, and youth sports.



**MTE Corporation**  
N83 W13330 Leon Road  
Menomonee Falls WI 53051  
(800) 455-4MTE • (262) 253-8200