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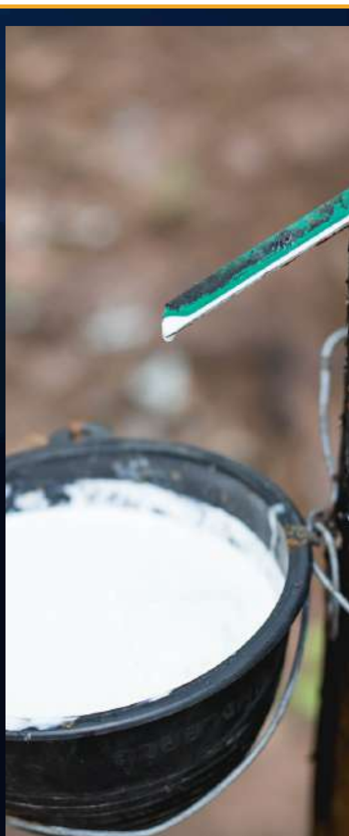


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"Future Rubber Technology toward Sustainability"

Rubber & Elastomer Technical Exhibition

Exhibitor Guidelines

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Inquiries/Registration

Secretariat of IRC2026 AICHI
c/o Convention Linkage, Inc.
2 Sanbancho, Chiyoda-ku, Tokyo 102-0075, JAPAN
TEL: +81-3-3263-8698 Fax: +81-3-3263-8693 (10:00–17:00 (JST) ＊Weekdays Only)
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Conversation with
Dr. Peyman Ezzati
Rubber R&D Director
ERA Co., Ltd., China

In this issue of Rubber Review Magazine, we are pleased to feature Dr. Peyman Ezzati, an internationally recognized polymer engineer, researcher, innovator, and industry leader whose work spans elastomer engineering, sustainable materials, rubber compounding, tire technology, and circular economy solutions. With extensive academic and industrial experience across Iran, China, Europe, and international collaborations, Dr. Ezzati has established himself as a respected voice in the global rubber and polymer industry.

Currently serving as Research and Development Director at ERA Co. Ltd., Dr. Ezzati has been leading advanced developments in EPDM, NBR, HNBR, FKM, silicone, and sustainable elastomer technologies for applications ranging from industrial sealing systems to electric vehicle components and energy-saving insulation materials. His contributions in fire-retardant rubber compounds, antibacterial elastomers, microplastic management, recycled materials utilization, and elastomeric insulation technologies have earned international recognition, including the prestigious West Lake Friendship Award from the Zhejiang Provincial Government, China.

Beyond industrial innovation, Dr. Ezzati is also known globally for his strong educational outreach, technical training programs, and active engagement with engineers, researchers, and young professionals through conferences, webinars, and social media platforms. His vision combines scientific advancement with sustainability, practical industrial applications, and human-centered technological development.

In this insightful cover story interview, Dr. Peyman Ezzati shares his perspectives on the future of elastomer engineering, sustainable rubber technologies, innovation management, energy-saving materials, global collaboration, research commercialization, talent development, and the evolving opportunities shaping the rubber and polymer industries worldwide.

Please briefly introduce yourself, your professional journey, and what inspired you to enter the field of polymer and rubber engineering.

My journey into polymer engineering started in 1999 when I entered Amirkabir University of Technology (Tehran Polytechnic) in Tehran to study Polymer Engineering. At that time, it was still considered a very specialized and relatively unknown field in Iran, which actually made it more attractive to me. I came from a small city *Saqqez* in Kurdistan Province, so moving alone to Tehran was a major turning point in my life both personally and professionally.

Even during high school, I was fascinated by polymers because I could already see how deeply materials influence everyday life. Later, during university, an elastomer engineering course completely changed my direction. I became very interested in rubber compounding and vulcanization because I realized how intelligently engineered formulations could create entirely new material behaviors.

After graduation, I worked in several rubber manufacturing companies while continuing my master’s and PhD studies. Over time, I became involved in tire technology, industrial compounding, R&D management, and technical consulting. One of the most important experiences in my career was managing Barez Kurdistan Tire Factory, where I gained deep practical understanding of large-scale manufacturing, process management, and industrial leadership.

"The sales department sells for today.
The marketing department sells for next week.
The R&D department sells for next year.
And the innovation department sells for the next five years."

Later, I founded "*Dr. Compound*," which began as a technical education platform and gradually expanded into consulting, formulation development, and industrial projects with companies from different countries.

My move to China opened a new chapter in my career. Working in large industrial ecosystems shifted my focus beyond material performance toward sustainability, energy efficiency, circular economy strategies, and intelligent manufacturing. Today, alongside elastomer engineering, I am particularly interested in AI-assisted formulation development, sustainable materials, and reducing environmental challenges such as microplastic pollution.

For me, polymer engineering has never been just a profession. It has been a combination of science, industry, innovation, and responsibility toward the future.

Your career spans research, industrial manufacturing, R&D leadership, tire technology, elastomer engineering, and sustainability. How has this multidisciplinary experience shaped your approach to innovation?

My experience across research, manufacturing, tire technology, R&D leadership, and sustainability has completely changed how I define innovation. Early in my career, I believed innovation was mainly about developing new formulations or improving technical performance. But after years inside factories and industrial projects, I realized that real innovation only matters when it survives real production conditions, market pressure, cost limitations, and human realities.

Working in large manufacturing environments taught me that technology alone does not change industries. People do. A formulation may look excellent in the laboratory, but unless production teams, operators, quality engineers, and management can implement it successfully and consistently, it remains only a theory.

This experience gradually pushed me toward a more practical and human-centered view of innovation. Today, when I evaluate a new technology, I no longer think only about performance. I also think about manufacturability, scalability, energy consumption, sustainability, process stability, and long-term industrial value.

One principle I have shared for years in my workshops and industrial projects is:
"The sales department sells for today.
The marketing department sells for next week.
The R&D department sells for next year.
And the innovation department sells for the next five years."

For me, innovation is ultimately about connecting science with real industrial needs and future global challenges. I believe the future belongs to engineers and companies that can combine materials science, sustainability, artificial intelligence, manufacturing, and human understanding into one integrated vision.

You are currently leading R&D activities at ERA Co. Ltd. What are some of the major rubber and elastomer innovations your team is currently focusing on?

At ERA, our R&D activities are strongly connected to the future direction of industry itself. Today, rubber materials are no longer evaluated only by mechanical performance or cost. They must also contribute to energy efficiency, sustainability, intelligent manufacturing, and environmental responsibility. One of our major focus areas is advanced elastomer systems for electric vehicle applications, especially sealing technologies that require higher thermal stability, flame resistance, durability, and low-VOC performance. As EV technology evolves, elastomer materials are becoming increasingly important for safety, lightweighting, and long-term reliability.

We are also working on antimicrobial rubber compounds, green processing technologies, and more intelligent formulation systems. In recent years, I have become very interested in how artificial intelligence can support rubber compounding by accelerating formulation optimization, material selection, and process prediction. I see AI not as a replacement for engineers, but as a powerful industrial assistant.

*Another important directio*n is smart manufacturing and automation. The future factory will be far more data-driven, energy-efficient, and automated than traditional manufacturing systems. This includes robotic production systems, intelligent quality monitoring, and manufacturing environments with lower waste and higher consistency.

Overall, I believe the future of elastomer engineering will be defined not only by stronger materials, but by smarter and more sustainable industrial systems. The companies that succeed in the future will be those that can combine performance, intelligent manufacturing, and environmental responsibility together.

Sustainability and circular economy are becoming major global priorities. How do you see the rubber industry evolving in the next 10 years in this direction?

I believe the rubber industry is entering one of the biggest transformation periods in its history. In the next decade, sustainability will no longer be a marketing topic it will become a core industrial requirement. For many years, the industry mainly focused on performance, durability, and production efficiency. Those factors are still important, but today materials must also be evaluated based on carbon footprint, recyclability, energy consumption, and environmental impact.

One of the biggest future challenges is tire wear microplastics. Tire abrasion particles are increasingly recognized as a serious environmental issue affecting air, soil, rivers, and oceans. This means future tire and elastomer technologies must become cleaner and more environmentally responsible without compromising safety and performance.

At the same time, I see enormous opportunities ahead. Recycled materials, bio-based elastomers, green fillers, energy-efficient manufacturing, and AI-assisted optimization will gradually become part of normal industrial practice rather than special innovations.

Personally, I have always been interested in practical sustainability. One important area for me has been elastomeric insulation systems because reducing energy loss is often one of the fastest and most realistic ways to reduce carbon emissions globally. I also believe the future circular economy will depend heavily on advanced recycling technologies and intelligent material design. Waste should no longer be viewed simply as waste, but as a valuable industrial resource that can be re-engineered intelligently. In my opinion, the companies that will lead the future rubber industry are those that can successfully combine performance, sustainability, intelligent manufacturing, and environmental responsibility into one long-term vision.

You have worked extensively on elastomeric insulation technologies. What role can these materials play in global energy-saving and carbon reduction initiatives?

I believe advanced elastomeric insulation materials can play a very important role in reducing global energy consumption and carbon emissions. In many industries, the biggest problem is not only how energy is generated, but how much energy is wasted before it is efficiently used. Modern buildings, factories, hospitals, airports, shopping centers, and industrial plants consume enormous amounts of energy every day. Improving insulation efficiency is often one of the fastest and most cost-effective ways to reduce that energy loss.

One of the major advantages of elastomeric insulation systems is their ability to reduce thermal loss while also preventing condensation and corrosion under insulation (CUI), especially in humid and coastal industrial environments. This is critical for HVAC systems, petrochemical plants, and energy infrastructure. I believe future insulation technologies will increasingly move toward higher thermal efficiency, lower environmental impact, and smarter energy-management systems. Artificial intelligence may also help optimize insulation design, maintenance, and long-term energy performance.

For me, energy saving is directly connected to environmental responsibility. If we want to reduce global warming, we must reduce unnecessary fossil fuel consumption. In many cases, preventing energy waste is even more practical and impactful than producing new energy. That is why I see advanced insulation materials not only as industrial products, but as part of a larger global strategy for sustainability and carbon reduction.

"The future of elastomer engineering lies where energy efficiency, circularity, and intelligent design come together."

“Rubber compounding is not simply mixing materials. It is engineering interactions.”

Fire-retardant and antibacterial rubber compounds are gaining importance in many industries. What are the key technical challenges in developing such advanced elastomer systems?

Developing fire-retardant and antibacterial rubber compounds is one of the most challenging areas in modern elastomer engineering because multiple properties must be balanced simultaneously. Improving one property can often negatively affect others. In fire-retardant systems, engineers must achieve flame resistance, low smoke generation, thermal stability, durability, and good processability at the same time. Today, the industry is also moving away from traditional halogen-based systems toward safer and more environmentally responsible solutions, which creates additional formulation complexity.

Antibacterial elastomers introduce another challenge. The goal is not only to create antimicrobial activity, but also to maintain long-term stability, safety, durability, and reliable performance under real operating conditions.

One of the biggest realities in rubber compounding is that materials do not behave independently inside a formulation. Every ingredient affects the others. That is why I often say: *"Rubber compounding is not simply mixing materials. It is engineering interactions."* Another major challenge is scaling laboratory success into stable industrial production. Many compounds perform well in small-scale laboratory conditions but become unstable during real manufacturing because of process variations, mixing behavior, or production inconsistencies.

I also believe sustainability is becoming an increasingly important factor in advanced compound design. Today, engineers must think not only about performance, but also about environmental impact, recyclability, regulatory requirements, and long-term industrial feasibility.

In the future, artificial intelligence will likely help accelerate formulation development and optimization. However, deep engineering experience and practical industrial understanding will still remain essential for developing reliable high-performance elastomer systems.

"Artificial intelligence can accelerate formulation, but engineering judgment ensures reliable performance."

"The future of advanced elastomers lies in combining high performance with sustainability and practical manufacturability."

Electric vehicles are transforming material requirements in automotive applications. How is the rubber industry adapting to the needs of EV technologies?

Electric vehicles are fundamentally changing the role of elastomer materials in the automotive industry. In conventional vehicles, many rubber components were mainly designed around durability and cost efficiency. But in EV systems, materials are now expected to contribute simultaneously to safety, thermal management, lightweighting, noise reduction, and energy efficiency. One of the most important changes is related to battery systems and thermal management. EV elastomers must provide reliable sealing performance, flame resistance, chemical stability, low-VOC behavior, and long-term durability under more demanding thermal and electrical conditions.

At the same time, EVs are accelerating demand for lighter and quieter material solutions. Low rolling resistance tires, vibration-control systems, and lightweight sealing materials are becoming increasingly important because they directly influence vehicle range and efficiency. I also believe EV technology is pushing the rubber industry toward smarter manufacturing and AI-assisted formulation development. Future elastomer systems will increasingly rely on intelligent process control, predictive quality analysis, and more automated production environments to achieve higher precision and consistency.

Another key issue is sustainability. The future EV industry cannot truly be considered environmentally advanced if the materials used inside vehicles still create major environmental burdens. This means future elastomer systems must increasingly focus on recyclability, cleaner processing, and lower-carbon manufacturing. In my opinion, the future of EV elastomer engineering will not be defined only by stronger materials, but by smarter and more sustainable materials that work as part of a larger intelligent transportation ecosystem.

You have significant experience in both tire technology and rubber compounding. What are the biggest opportunities for innovation in tire materials today?

The tire industry is currently going through a major transformation. Traditionally, tire development focused on balancing rolling resistance, wet grip, and wear or noise performance what many engineers call the “magic triangle” of tire technology. That challenge still exists, especially with the rise of electric vehicles, but today the industry is facing a much larger responsibility.

In my opinion, one of the biggest future opportunities is developing tire materials that combine performance with sustainability. Tire wear microplastics are becoming an increasingly serious environmental concern, and future tire compounds must reduce abrasion while still maintaining safety, durability, and energy efficiency.

"Formulation tells you what is inside the compound, but rheology and morphology determine how the compound will actually behave."

This creates a very complex engineering challenge because modern tires are expected to deliver low rolling resistance, excellent wet traction, long service life, reduced noise, and lower environmental impact all at the same time.

My experience managing the Barez Kurdistan Tire Factory was especially valuable in shaping my understanding of this complexity. It was a large-scale operation with nearly 1,000 employees and advanced technologies connected to companies such as Continental and Pirelli. That experience taught me that tire engineering is not only about formulation science it is also about process stability, manufacturing precision, quality consistency, and industrial teamwork.

I also believe *artificial intelligence* will increasingly influence future tire development. AI-assisted formulation systems, predictive simulations, and intelligent manufacturing can help accelerate compound optimization and improve both efficiency and consistency.

At the same time, sustainable fillers, recycled materials, bio-based elastomers, and lower-energy production technologies will become much more important across the global tire industry. For me, the future tire is no longer only about mobility. It is about creating safer, smarter, more energy-efficient, and more environmentally responsible transportation systems.

Many companies struggle to bridge the gap between laboratory research and industrial commercialization. What strategies do you recommend for successful technology transfer?

One of the biggest reasons technologies fail during commercialization is that laboratory conditions and factory conditions are completely different. A formulation may perform very well in a controlled lab environment, but real industrial production involves machine limitations, raw material variations, process instability, cost pressure, and human factors all at the same time. In my opinion, one of the most common mistakes is developing technologies without enough understanding of actual manufacturing realities. Successful commercialization requires much more than good laboratory data.

That is why I believe production teams, quality engineers, maintenance departments, and even machine operators should be involved much earlier in the development process. Real innovation cannot happen in isolation between R&D and manufacturing. Pilot-scale validation is also extremely important. Many companies move too quickly from laboratory trials to mass production without properly evaluating scale-up behavior, processing stability, or long-term repeatability.

Another key factor is communication. R&D, production, sales, and management teams must work together closely. Technology transfer becomes much more successful when technical understanding and business reality are aligned from the beginning.

"The future circular economy will belong to industries that can transform waste into high-value engineering systems."

I also believe artificial intelligence and digital manufacturing tools will increasingly help reduce commercialization risks through predictive analysis, intelligent quality monitoring, and process simulation. However, even advanced digital systems cannot replace practical industrial experience and engineering judgment. One lesson I learned throughout my career is that factories are living systems, not just production lines. Successful technology transfer happens when companies understand materials, machines, people, and industrial behavior together not separately.

You have been involved in multiple patents, industrial projects, and applied research initiatives. Which project are you personally most proud of, and why?

It is difficult for me to select only one project because each important project taught me something valuable about technology, industry, sustainability, and people. However, I feel especially proud of projects that combined engineering innovation with meaningful long-term impact.

One area that has been particularly meaningful for me is energy-saving elastomeric insulation technologies. These projects were not only about developing industrial materials they were about reducing energy loss, improving HVAC efficiency, minimizing corrosion under insulation (CUI), and helping industries lower carbon emissions.

I am also proud of my work related to sustainability and recycling, especially projects connected to recycled materials, PET recycling, and circular economy concepts. In recent years, my growing focus on tire wear microplastics and environmentally responsible elastomer systems has become increasingly important to me.

Another area I value highly is AI-assisted formulation and intelligent compounding systems. I became interested in understanding how artificial intelligence could help engineers accelerate formulation development, optimize material selection, and improve industrial decision-making. I believe this direction will significantly influence the future of rubber engineering.

At the same time, beyond technologies themselves, one of the most rewarding parts of my career has been education and industrial consulting. Working with engineers, factories, and companies from different countries and seeing knowledge turn into real industrial progress has given me a deep sense of satisfaction. For me, the most valuable projects are not simply the ones that generate patents or technical success. They are the projects that create real impact for industry, sustainability, and future generations.

"The most meaningful innovations are not those that create patents—they are the ones that create lasting value for industry, sustainability, and future generations."

How important is rheology and polymer morphology understanding in designing high-performance rubber compounds?

In my opinion, rheology and polymer morphology are among the most critical foundations of successful rubber engineering. A formulation may look excellent on paper, but the real performance of a compound depends on how materials behave during mixing, processing, curing, and final application. Many industrial problems that appear to be raw material issues are actually related to poor dispersion, unstable viscosity behavior, weak interfacial interactions, or incorrect morphology development. Especially in modern multiphase systems and advanced elastomer blends, controlling morphology directly affects durability, dynamic properties, processability, and long-term stability.

My experience in tire technology and industrial compounding taught me that understanding rheology is not only about laboratory testing. It is about predicting how a material will behave under real manufacturing conditions, where shear, temperature history, machine behavior, and processing stability all influence final quality. Today's compounds are expected to satisfy multiple requirements simultaneously performance, sustainability, processability, low VOC, flame resistance, recyclability, and cost optimization. Without strong understanding of rheology and morphology, balancing these demands becomes extremely difficult.

I also believe AI-assisted simulation and predictive modeling will increasingly support this field in the future. However, deep physical understanding of polymer behavior will remain essential. As I often say: *"Formulation tells you what is inside the compound, but rheology and morphology determine how the compound will actually behave."*

You have experience working with global collaborations across China, Iran, Europe, and Australia. What are the advantages of international cooperation in polymer and rubber innovation?

I believe international collaboration is no longer just an advantage in the rubber industry — it has become essential for real innovation. Today's challenges, from sustainability and energy efficiency to AI and advanced manufacturing, are too complex for any single company or country to solve alone.

One of the biggest benefits of working internationally is exposure to different engineering cultures and problem-solving approaches. Every region has its own strengths. Europe, for example, is strong in precision engineering and industrial standards. China moves incredibly fast in manufacturing scale, automation, and industrial transformation. My experience in Iran taught me practical problem-solving, adaptability, and how to work efficiently under limitations. Combining these perspectives creates much stronger innovation.

International cooperation also accelerates technology transfer. In many cases, innovation does not come from inventing completely new science, but from connecting existing knowledge in smarter ways across industries and countries.

"Innovation grows faster when knowledge, industries, and human experiences connect beyond borders."

I also think global collaboration is critical for sustainability. Issues such as microplastic pollution, recycling, carbon reduction, and energy efficiency are global problems. They require engineers, universities, and industries to work together beyond borders. Personally, working with engineers and companies from different countries expanded not only my technical knowledge, but also my understanding of people, communication, and industrial thinking. In the end, innovation is created by people before it is created by machines.

For me, one sentence summarizes it well: *"Innovation grows faster when knowledge, industries, and human experiences connect beyond borders."*

What are your views on the future of recycled materials, recycled rubber, and rPET utilization in elastomer applications?

I believe the future of the polymer and rubber industry will strongly depend on how intelligently we manage waste and transform it back into valuable industrial resources. Recycling is no longer only an environmental discussion it is becoming a strategic industrial necessity. For many years, recycled materials were often associated with lower quality or limited applications. But today, advances in material science, compatibilization technologies, process engineering, and AI-assisted formulation development are changing that perspective very quickly.

Personally, I have always been very interested in recycled rubber, recycled plastics, and especially rPET utilization. The scale of global plastic and tire waste has become too large to ignore, while industries continue consuming enormous amounts of virgin fossil-based materials. This situation is neither environmentally nor economically sustainable in the long term. Among recycled materials, I believe rPET has particularly strong potential in advanced polymer and elastomer systems. With proper engineering, it can be used in polymer blends, thermoplastic elastomers, reinforcement systems, and sustainable composite applications.

At the same time, recycled rubber will become increasingly important, although rubber recycling is technically much more challenging than recycling thermoplastics because vulcanized rubber is a highly crosslinked material. This is why future technologies will likely focus more on devulcanization, chemical recycling, and higher-value circular manufacturing systems rather than traditional low-value reuse methods.

I also believe artificial intelligence will play a major role in the future of recycling through intelligent sorting, predictive formulation, process optimization, and life-cycle analysis. But in my opinion, the real future is not simply adding recycled materials into compounds. The future is designing materials from the beginning with circularity in mind.

For me, one idea summarizes this direction well: *"The future circular economy will belong to industries that can transform waste into high-value engineering systems."*

"The engineers of the future will combine technical depth, industrial realism, sustainability thinking, and intelligent technologies together."

As a technical educator and trainer, what skills do you believe young rubber engineers and polymer professionals should focus on developing today?

In my opinion, future rubber engineers must become much more than formulation specialists. The industry is evolving rapidly, and young engineers now need a combination of technical knowledge, industrial understanding, digital awareness, and communication skills to remain truly valuable. Of course, strong fundamentals in polymer science, elastomer chemistry, rheology, morphology, compounding, processing, and failure analysis will always be essential. Without a solid technical foundation, solving real industrial problems becomes very difficult.

However, technical knowledge alone is no longer enough. One of the biggest gaps I often see is that many young engineers understand materials theoretically but have very limited exposure to real manufacturing environments. Factories are very different from classrooms. Real production involves machines, operators, maintenance issues, process instability, deadlines, quality variation, and commercial pressure all at the same time. That is why I strongly encourage young engineers to spend time inside production environments as early as possible.

I also believe future engineers must think more interdisciplinarity. Today, innovation increasingly happens where materials science, sustainability, artificial intelligence, automation, and manufacturing systems intersect. Artificial intelligence is another area young professionals should understand seriously — not with fear, but with intelligence. AI will not replace engineers who deeply understand materials and industrial systems, but engineers who know how to work with AI tools will likely move much faster in formulation development, process optimization, and industrial problem-solving.

At the same time, communication skills are becoming increasingly important. Many good technical ideas fail simply because engineers cannot communicate effectively with production teams, managers, or customers. For me, engineering has always been about solving real human and industrial problems, not only working with materials and machines.

If I wanted to summarize the future skillset of successful engineers in one sentence, I would say: "*The engineers of the future will combine technical depth, industrial realism, sustainability thinking, and intelligent technologies together*."

"Technical knowledge builds an engineer; industrial experience, communication, and adaptability build a leader."

You are also highly active on LinkedIn and digital platforms. How important is professional branding and knowledge-sharing for scientists and engineers in today's industry?

I believe professional branding and knowledge-sharing have become extremely important for engineers and scientists in today's industrial world. Technical expertise alone is still essential, but today visibility, communication, and trust also play a major role in creating impact. For me, professional branding is not about self-promotion. Real professional branding means building credibility through consistent knowledge-sharing, practical experience, and meaningful contribution to industry.

In the past, many engineers worked quietly behind factories, laboratories, and technical reports. But today, digital platforms allow engineers to connect globally, share ideas, educate others, and build collaborations much faster than before. Personally, platforms like LinkedIn have allowed me to connect with engineers, researchers, manufacturers, and students from many different countries. Through technical content, webinars, industrial discussions, and educational posts, I have seen how digital communication can create real professional opportunities and valuable international collaborations.

I also believe knowledge-sharing helps accelerate industrial progress. Many companies around the world face similar challenges in sustainability, processing, recycling, energy efficiency, and manufacturing optimization. When engineers share practical and experience-based knowledge responsibly, innovation moves faster across the industry. At the same time, visibility also creates responsibility. In the age of AI-generated content and fast online information, credibility and authenticity are becoming even more valuable than visibility itself.

Another important point is that younger engineers increasingly learn through digital ecosystems. Experienced professionals therefore have an opportunity and perhaps a responsibility to share practical industrial knowledge and help guide the next generation.

For me, one sentence summarizes this well: *"Expertise creates value, but trusted visibility multiplies its impact."*

What are some common technical mistakes companies make when developing or processing rubber compounds?

In my opinion, one of the most common mistakes in rubber compounding is focusing too much on raw materials while underestimating the importance of processing and system understanding. Many companies believe that using high-quality polymers or additives automatically guarantees high-performance compounds. But rubber engineering is much more complex than simply selecting good ingredients. Processing conditions, mixing sequence, temperature control, dispersion quality, curing behavior, machine conditions, and even operator experience can dramatically affect final performance.

“Expertise creates value,
but trusted visibility multiplies its impact.”

Another common mistake is trying to copy formulations without understanding the engineering logic behind them. Rubber compounding is not cooking — it is engineering. Two companies may use similar raw materials but achieve completely different results because of differences in rheology, morphology, dispersion, or process control.

I also frequently see companies moving too quickly from laboratory trials into mass production without proper scale-up validation. Laboratory mixers and industrial production lines behave very differently, and many formulations that work well in the lab fail under real manufacturing conditions.

Poor filler dispersion is another major issue. Sometimes companies focus heavily on reducing formulation cost while sacrificing processing quality, which eventually creates larger problems such as inconsistent properties, poor surface finish, unstable curing, or premature product failure.

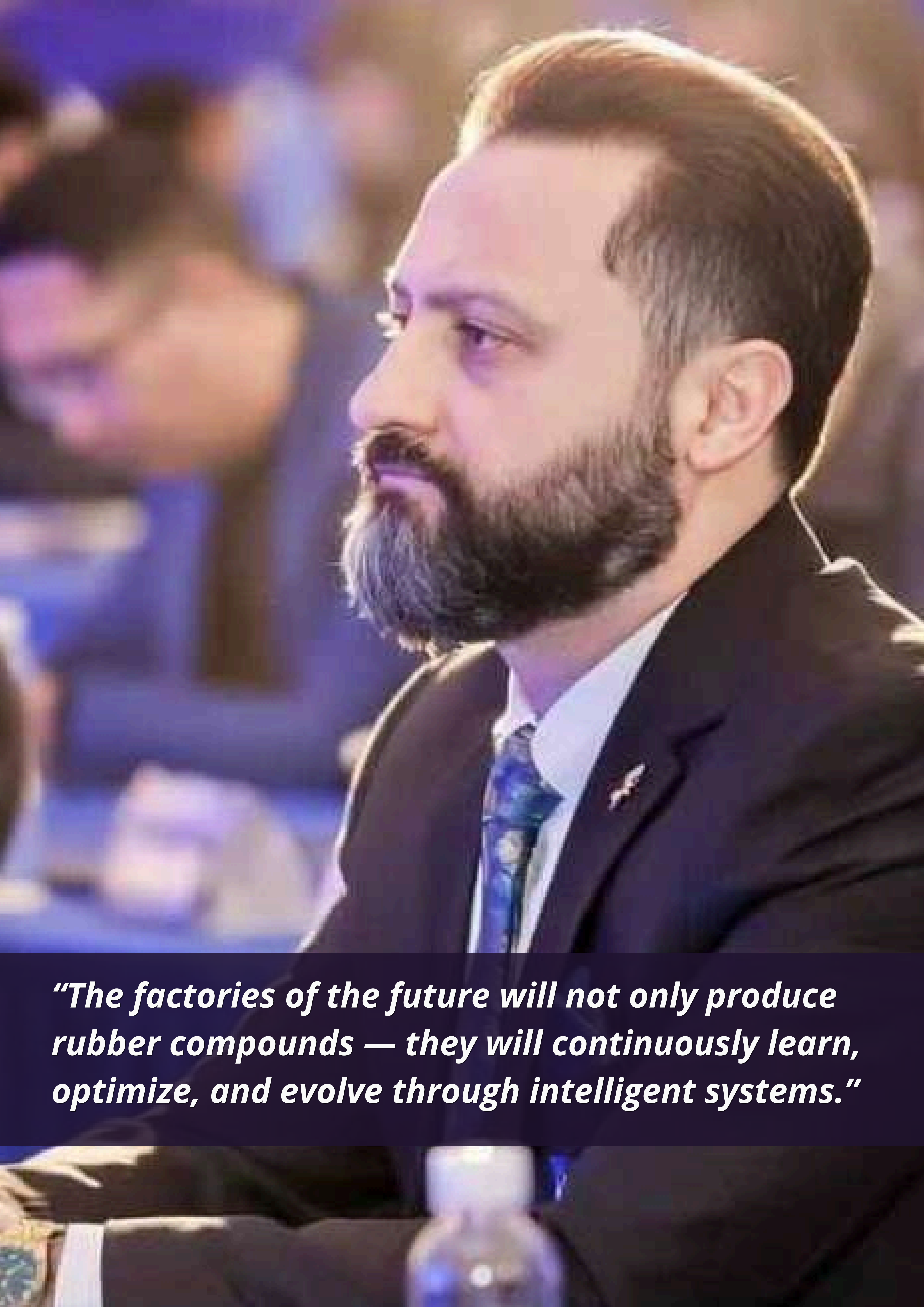
At the same time, many companies still separate R&D from production too aggressively. In reality, successful rubber manufacturing requires close collaboration between formulation engineers, production teams, quality departments, maintenance engineers, and machine operators. I also believe some companies still underestimate long-term sustainability trends. Future compounds must increasingly satisfy not only performance and cost targets, but also requirements related to recyclability, carbon footprint, energy consumption, and environmental responsibility.

If I wanted to summarize the biggest lesson in one sentence, I would say: *"Do not optimize only the formulation — optimize the entire industrial system."*

Artificial intelligence, smart manufacturing, and digitalization are transforming industries worldwide. How do you see these technologies influencing the future of rubber manufacturing and R&D?

I believe artificial intelligence and digitalization will fundamentally transform the rubber industry over the next decade. In many ways, this transformation has already started, although the industry is still at the early stages of it.

Traditionally, rubber compounding relied heavily on experience, trial-and-error development, and long testing cycles. That experience will always remain valuable, but today intelligent technologies can significantly accelerate innovation and industrial decision-making. One of the biggest impacts of AI will be in formulation development and process optimization. AI-assisted systems can analyze large amounts of formulation, rheology, processing, and production data much faster than traditional approaches. This can reduce development time, improve formulation accuracy, and help optimize manufacturing conditions more efficiently.


“The factories of the future will not only produce rubber compounds — they will continuously learn, optimize, and evolve through intelligent systems.”

Personally, this is one reason I became very interested in AI-assisted formulation systems. I do not see AI as a replacement for rubber engineers. I see it as a powerful engineering assistant that can help experienced engineers innovate faster and more intelligently. I also believe smart manufacturing will greatly improve process stability and production consistency. Many traditional production problems come from process variation, operator dependency, or delayed problem detection. Intelligent manufacturing systems using real-time monitoring, predictive analytics, and automated quality control can reduce many of these issues.

The future factory will become much more automated, connected, and data-driven. We are already seeing movement toward robotic manufacturing systems, predictive maintenance, intelligent quality monitoring, and highly automated production environments. Another important area is sustainability. AI can help industries reduce waste, optimize energy consumption, improve recycling efficiency, and lower carbon footprints much more effectively than traditional systems alone.

At the same time, I do not believe AI will replace experienced engineers or industrial intuition. Rubber manufacturing remains a highly complex field involving material behavior, process interactions, practical experience, and multidisciplinary thinking.
For me, the future belongs to engineers who can combine material science, industrial understanding, and intelligent technologies together.

If I wanted to summarize this transformation in one sentence, I would say: *"The factories of the future will not only produce rubber compounds — they will continuously learn, optimize, and evolve through intelligent systems."*

What advice would you give to companies aiming to build stronger innovation-driven cultures within their R&D and manufacturing teams?

In my opinion, building a true innovation-driven culture is one of the biggest challenges for industrial companies today. Many companies want innovation, but very few are willing to create the environment that innovation actually requires. Real innovation cannot grow in cultures driven only by short-term production pressure or fear of failure. Innovation requires curiosity, collaboration, trust, and long-term thinking.

One of the biggest mistakes companies make is believing innovation belongs only to the R&D department. In reality, innovation should involve the entire industrial ecosystem — from management and production teams to quality control, maintenance, and even machine operators. Some of the most valuable industrial insights often come from people working directly with processes every day. I strongly believe companies should build much closer connections between R&D and manufacturing teams. Many industrial problems happen because researchers and production teams operate too separately from each other. Successful innovation happens when technical creativity and practical manufacturing experience work together continuously.

Leadership mindset is also extremely important. If employees are punished every time an experiment fails, people eventually stop taking initiative. But in real engineering, controlled failure is often part of learning and technological progress. At the same time, innovation should remain connected to business reality. The healthiest innovation cultures are those that balance technical creativity, manufacturability, market needs, sustainability, and economic feasibility together. I also believe continuous learning is becoming more important than ever, especially with the rise of AI and digital transformation. Companies should invest seriously in technical education, interdisciplinary learning, and employee development.

One principle I have always believed in is this:
"The sales department sells for today.
The marketing department sells for next week.
The R&D department sells for next year.
And the innovation department sells for the next five years."

For me, this philosophy explains why companies must protect long-term innovation thinking even while managing short-term industrial realities.

If I wanted to summarize my advice in one sentence, I would say: "*Do not build factories that only produce products — build organizations that continuously produce ideas, learning, and transformation.*"

Finally, what is your long-term vision for the future of sustainable elastomer engineering and the global rubber industry?

My long-term vision for the rubber industry is a future where performance, sustainability, artificial intelligence, and human responsibility are no longer treated as separate subjects, but as one integrated industrial philosophy. For decades, the industry was mainly driven by production capacity, cost, and technical performance. These factors will always remain important, but I believe the next era of elastomer engineering will be defined by how responsibly and intelligently we develop materials for a changing world.

Today, the industry faces major global challenges including climate change, energy consumption, waste generation, microplastic pollution, and resource limitations. In my opinion, material engineers can no longer think only about products. We must think about the long-term impact of the systems we create. This means the future of elastomer engineering must move toward lower-carbon manufacturing, energy-efficient processing, sustainable raw materials, intelligent recycling systems, and circular economy models.

At the same time, I believe artificial intelligence will become one of the most transformative tools in the future of rubber engineering. AI-assisted formulation development, smart manufacturing, predictive quality analysis, intelligent recycling technologies, and digital process optimization will gradually reshape the industry.

However, I do not believe technology alone can solve future challenges. The industry must remain human-centered. Behind every formulation, machine, and factory, there are people, societies, and future generations affected by the decisions we make today.

Personally, I hope the future rubber industry becomes not only more advanced, but also wiser. Smarter factories alone are not enough if they continue creating unsustainable systems. Real progress happens when innovation, environmental responsibility, and industrial growth evolve together. I also strongly believe education will play a critical role in this transformation. Sustainability awareness should start not only in universities and industries, but even among younger generations.

If I wanted to summarize my long-term vision in one sentence, I would say: *"The future of elastomer engineering should not only create better materials — it should help create a better relationship between industry, humanity, and the planet."*

IRMRI
Spotlight

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE

Formerly known as Indian Rubber Manufactures Research Association(IRMRA)

An Autonomous Institute, Under DPIIT, Ministry of Commerce & Industry, Govt. of India

254/1B Road No 16V, Wagle Industrial Estate, Thane West, Maharashtra 400604.

Email: info@irmra.org /www.irmri.org/022 6787 3200 (19 Lines)

Indian Rubber Materials Research Institute (IRMRI) formerly known as Indian Rubber Manufacturers Research Association (IRMRA), which was established in 1958 is an internationally well-known Centre of Excellence for providing technological services to both Non-tyre & Tyre sectors.

It is an autonomous institute under the Department for Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, Govt. of India.

IRMRI Facilities Covers

1. Testing of Polymeric Matrials and Products
2. Research & Development on Rubber & Allied Products
3. Reverse Engineering & Failure Investigation
4. Academic & Sponsored Research
5. ARISE - Incubation Centre
6. Training & Skill Development
7. Industrial Consultancy
8. Third Party Inspection
9. Tyre Testing Facilities - Centre of Excellence

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE REGIONAL CENTRE'S

IRMRI - South Center 1 (Andhra Pradesh)
Sri City Trade Centre, Sri City (Dt.)
Contact: Mr. Paul Vannan,
Sr. Deputy Director
pv@irmra.org
info.south@irmra.org
Mob. No.: +91-8655095345

IRMRI - South Center 2 (Tamil Nadu)
Strategic Product Development Center
Plot B-26/2, SIPCOT Industrial Growth Centre
Oragadam, Sriperumpudur (Tk.),
Kancheepuram (Dt.)
spdc1@irmra.org

IRMRI - East Center
South Asian Rubber Park,
P.O-Sankrail, Howrah (Dt.),
Dulagarh, West Bengal - 711302
Contact: Dr. Basu,
Sr. Asst. Director & Centre Head
db@irmra.org
info.east@irmra.org
Mob. No.: +91-8197606600

IRMRI - North Center
111/9, 3rd Floor, Kishangarh,
Vasant Kunj
New Delhi - 110 070
irmra.nc1@irmra.org
Mob No.:+91 9716230295

Plastic Processing and Testing Lab

Services Offered

- Characterization of plastic material by FTIR, DSC, TGA
- Mechanical Testing
- Processibility test
- Mixing and Molding

List of Equipement

- Injection Molding Machine
- Plastic Compression Molding Machine
- Izod Impact Tester
- Twin Screw Extruder
- UTM with extensometer
- Melt Flow Index & MVR tester
- Cryogenic chamber
- Chemical Testing
- UTM & FTIR, DSC & TGA
- VICAT Softening Point & HDT Tester

Indian Rubber Materials Research Institute
An Autonomous Institute under DPIIT, Ministry of Commerce & Industry, Govt of India
Plot No. 254/1B, Road No. 16V, Wagle Industrial Estate, Thane (W) - 400 604
Email: info@irmra.org | Phone: 022-6787-3200/201 (19 lines) | Website: www.irmri.org

IRMRI East Centre

State-of-the Art Testing Facilities for Rubber and Allied Material Testing

IRMRI – East Centre is focussed on testing and investigation of Rubber products as its major activity. The East Centre facility includes sophisticated and latest instruments and is capable of carrying out tests in both Mechanical and Chemical domains.

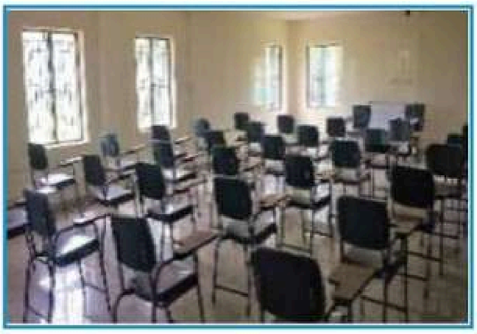
Services offered

- ✓ Raw Material testing & evaluation
- ✓ Rubber samples and product testing
- ✓ Product development & Industrial consultancy
- ✓ Training & Skill development
- ✓ Academic / Sponsored Research
- ✓ Reverse Engineering and Bench-marking

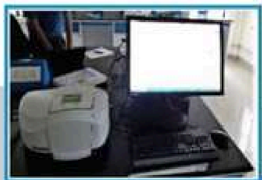
Accreditation - The center is ISO/IEC 17025 : 2017 accredited in the field of testing for Chemical and Mechanical discipline for rubber and its allied product

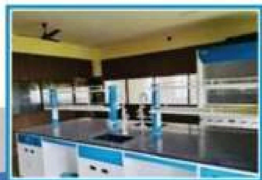
List of Equipment / Facilities

- ✓ Thermogravimetric Analyzer (TGA)
- ✓ Differential Scanning Calorimeter (DSC)
- ✓ Fourier Transform Infra Red Spectroscopy (FTIR)
- ✓ Gas Chromatography Mass Spectroscopy (GCMS) with Pyrolyzer
- ✓ Inductively Coupled Plasma (ICP)
- ✓ Mooney Viscometer
- ✓ Moving Die Rheometer (MDR)
- ✓ Universal Testing Machine (UTM)
- ✓ Wet Lab with Fume Hood
- ✓ De-Mattia Ross Flex Tester
- ✓ Shore A & D Hardness Tester
- ✓ Ozone Chamber
- ✓ DIN Abrader
- ✓ Two roll Mill
- ✓ Compression Moulding



Contact: Dr. D. Basu, Sr. Asst. Director & Center Head
Email: db@irmra.org | **Mob:** +91 81976 06600
info@irmra.org





IRMRI - SRI CITY

State of ART Facility for Rubber and Allied Products

IRMRI South Center Focused on testing and investigation of Rubber Products as its major activity. The South Center facility includes sophisticated and latest instruments and is capable of carrying out tests in both Mechanical and Chemical domains. Our services include

- ✓ Raw Material Testing Service offered
- ✓ Rubber Samples and Product Testing
- ✓ Product Development & Industrial Consultancy
- ✓ Training & Skill Development
- ✓ Academic / Sponsored Research

Accreditation

The centre is ISO/IEC 17025:2017 accredited & BIS recognised for Tyre testing in the field of Testing for Chemical and Mechanical disciplines for Rubber and allied products.

Facilities Available

Chemical Lab

- ✓ TGA
- ✓ DSC
- ✓ FTIR
- ✓ GCMS-MS
- ✓ ICP-OES

Physical Lab

- ✓ Mooney Viscometer
- ✓ MDR
- ✓ UTM
- ✓ Digital Hardness Tester
- ✓ Ozone Chamber
- ✓ DIN Abrasion Tester
- ✓ De Mattia Flex Tester
- ✓ Rebound Resilience
- ✓ Shore A & D hardness tester

Tyre Testing Lab as per IS 15627, 15633, 15636

- ✓ Plunger Test
- ✓ Bead Unseating
- ✓ Speed Endurance

Tests under NABL scope

TEST NAME	INSTRUMENTS USED
Hardness (Shore A)	Digital Hardness Tester & Shore A Analog Durometer
Tensile Strength, Elongation at Break & Tension Modulus	UTM
Tear Strength	UTM
Mooney Scorch & Mooney Viscosity	Mooney Viscometer
Torque Min, Torque Max, Optimum Cure time, Scorch Time	MDR
Dimension & Tolerance, Finish and Stretch test	Ruler and Vernier Calliper
Composition analysis of Rubber Products like Low boiling content, Polymer content, Organic and Carbon black content & Ash content	TGA
Glass Transition & Melting Point of Rubber	DSC
Polymer Identification by FTIR	FTIR

Contact: Mr. Paul Vannan, Sr. Deputy Director & Centre Head
Email: irmrasr@gmail.com/pv@irmra.org

IRMRI East Centre Conducts Successful Training on Rubber Compound Testing

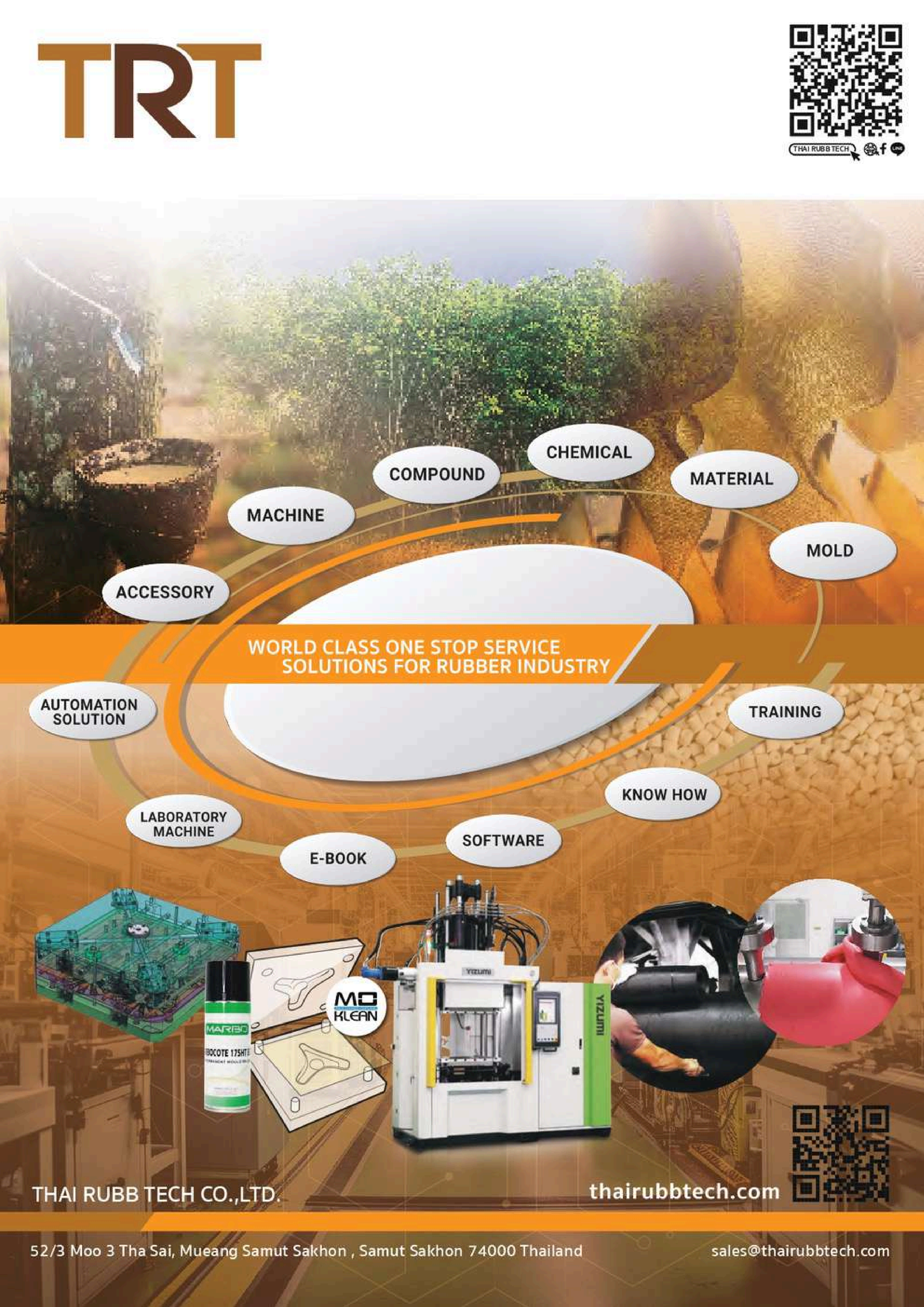
IRMRI East Centre successfully organized a two-day intensive training program on "Physical & Chemical Testing of Rubber Compounds" at Rubber Park, Dhulagarh, Sankrail, Howrah. The program offered participants valuable hands-on training and practical insights into rubber testing techniques, strengthening their technical expertise and understanding of industry best practices. The event concluded successfully with appreciation extended to all participants and resource persons for their active contributions and support.

TechnoBiz

GLOBAL RUBBER DIRECTORY

A TechnoBiz Business Directory

Vol. 6 | July 2026


TRT
THAI RUBB TECH
CHEMICAL
COMPOUND
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MACHINE
MOLD
ACCESSORY
WORLD CLASS ONE STOP SERVICE
SOLUTIONS FOR RUBBER INDUSTRY
AUTOMATION SOLUTION
TRAINING
KNOW HOW
LABORATORY MACHINE
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THAI RUBB TECH CO.,LTD.
thairubbtech.com
52/3 Moo 3 Tha Sai, Mueang Samut Sakhon , Samut Sakhon 74000 Thailand
sales@thairubbtech.com

Double A Plus Intertrade Co., Ltd.

We mainly supply on high quality of products in order to meet customer's requirements.
We are a leading chemicals importer and distributor to supply latex industry.

HELPING TO SHAPE THE LATEX INDUSTRY THROUGH TECHNOLOGY

SI Group

- LOWINOX® CPL : Highly effective,polymeric, non-discoloring phenolic antioxidant.
- HEPTEEN BASE® : It is widely used in molded and steam cured natural rubber and pure gum compounds.
- TRIMENE BASE® : It is a latex foam stabilizer which prevents foam collapse by causing gelling to take place at a higher pH

Unibond

- BUTAZATE® : Zinc Dibutyl Dithiocarbamate. (ZDBC)
- ETHAZATE® : Zinc Diethyl Dithiocarbamate. (ZDEC)
- OXAF® : Zinc-2- Mercaptobenzothiazole. (ZMBT)
- TUEX® : Tetramethyl Thiuram Disulfide. (TMTD)
- DPG® : Diphenyl Guanidine. (DPG)
- BENTAZATE® : Zinc Dibenzyl Dithiocarbamate. (ZBEC)

Clariant

- EMULSOGEN LAT : Surfactant for rubber latex. Good wetting properties & less foaming performance

DAP : Diammoniumphosphate

392 Anamaingamcharoen Road,
Thakham, Bangkhuntian, Bangkok 10150 Thailand
Tel: +662 451 9678 Fax: +662 117 3394
Email : info@aachemical.com | erawan@aachemical.com

www.aachemical.com

ANNA UNIVERSITY
MIT CAMPUS

Department of Rubber & Plastics Technology
Madras Institute of Technology
Chromepet, Chennai 600044

BASE AUTOMATION TECHNOLOGIES
Concept to Reality

30th YEARS ANNIVERSARY

csia CERTIFIED

USA | INDIA | UAE | UK

Empowering Tire Manufacturing with Industry 4.0 Solutions

BASE Automation empowers manufacturers to realize their Digital Transformation goals, providing visibility into operations, improving productivity, and enhancing quality through the use of actionable information derived by connecting assets and operators across the factory.

Solutions Overview

TIRE & RUBBER INTELLIGENCE

Over 20+ years of experience in Tire & Rubber domain

- **MES Connectivity**
- **OEE & Downtime Monitoring**
- **OT Digital Enablement**
- **Recipe Management (All Assets)**
- **Poka-Yoke Interlocks**
- **Statistical Process Control (SPC)**
- **Connected CMMS**
- **ERP Integration**
- **Digital Logbooks**
- **Traceability**
- **FTPC Support & Staffing**
- **Centralized SCADA**
- **Utilities Monitoring**
- **Predictive Analytics**

Built on ISA standards

BASE Automation was instrumental in enabling one of our tire customers to achieve recognition as a **World Economic Forum (WEF) Lighthouse**. Through the successful implementation of over **200 Smart Factory Use Cases**, we delivered cutting-edge **digital transformation solutions**. This accomplishment highlights BASE's deep expertise in Industry 4.0, adherence to ISA 95 standards, and capability in delivering **end-to-end automation**.

350+	34	140,000	10,000	750+
Controllers Connected	Process Areas	Tags Managed	Data Points/Sec Capture Rate	Poka-Yoke Workflows

GOLD System Integrator
A ROCKWELL AUTOMATION PARTNER

Ignition by inductive automation

snowflake

Enhancing Efficiency and Productivity Across Global Tire Industries

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SYS

Environmental System Integrator Co.,Ltd.

ENVIRONMENTAL SYSTEM INTEGRATOR

ENVIRONMENTAL SYSTEM INTEGRATOR CO.,ITD. (SYS) HAS BEEN ESTABLISHED JULY 2014. SYS IS ONE OF THE LEADER IN HIGH TECHNOLOGY AND INN BUSINESS OF ENVIRONMENTAL HANDLING TECHNOLOGY, MATERIAL QUALITYTING, CALIBRATION, INDUSTRIAL HYGIENE & SAFETY, SPEED ENFORCEM AND INNOVATION LEARNING CENTER AND WE OFFER THE BEST SUPPORT & SERVICES BY SPECIALIST ENGINEERING TEAM.

GOTECH
Authorized Exclusive Agent In Thailand

NSC-TISI-TIS17025 CALIBRATION 0003
ISO/IEC 17025: 2017 Accreditation No. Calibration 0484

RUBBER TESTING

UNIVERSAL TESTING MACHINE

AI-7000-MU

This machine are used to test tension, compression, bend, shearing force, adhesion, peeling force, tear strength, etc. of specimen, semi-product and finished product.

MOVING DIE RHEOMETER

M-6000AU

The moving die rheometer is an ideal instrument for determining the curing characteristics of rubber compounds including scorch time, cure time, cure rate, maximum torque, minimum torque and other vulcanization characteristics for quality control, research and development.
The Mooney Viscometer measures the viscosity, scorch and stress relaxation of raw rubber or compounded rubber.
It is used for determining the quality of rubber processing characteristics.

Standard : GB/T 16584-1996,ISO 6502-3-2018, ASTM D5289-2017

FLEXOMETER

RHU-2000N

The machine is used to determine the rubber subjected to the constant
compression load under certain amplitude and frequency to assess its rising speed of temperature, dynamic permanent deformation but it's available for testing the rubber with the hardness from 30 to 85 IRHD.

Standard : ASTM D1646-2017, GB/T 1233-2008, GB/T 1232.1-2016, ISO 289-2-2016, ISO 289-1-2015

TIRE TESTING MACHINE

LT-5500AS

LT-5500AS designed in accordance with international standards, is suitable for tire testing including plunger energy test, bead unseating test, vertical stiffness test, lateral stiffness test and pressure distribution test.

Standard : GB/T 23663, ASTM F414-15, ASTM F870-94(2016), GB/T 4502-2016, CNS1431:2017

Ozone Tester

OZ-0500AC

The OZ-0500AC is designed to assess the resistance of vulcanized and thermoplastic rubber to cracking under static or dynamic strain when exposed to an ozone environment.
This ozone tester offers controllable ozone concentration and temperature conditions and allows operators to assess the resistance of rubber materials to ozone exposure efficiently for product performance evaluation.

Standard : GB/T 7762-2014, GB/T 13642-2015, ASTM D 1149-18,ISO 1431-1:2012

DIN ABRASION RESISTANCE TESTER

GT-7012-D

This machine is designed for determining the resistance of polyester soles, outsoles and polymer sheet materials to abrasion. The abrasive resistance is assessed by measuring the abrasion loss after the specimen is rubbed against sandpaper.

Standard : BS-903, GB/T 9867, ISO 4649, JIS-K6264, SATRA TM174, ASTM D5963, QBIT 2884-2007, ISO 20871:2001, BS EN 12770:2000

DETERMINING THE PHYSICAL PROPERTIES LISTS • Tire Testing • Fatigue Testing • Impact Testing • Flex Testing • Elasticity Testing • Automotive Material Testing • Friction & Slip Testing • Abrasion Testing

OUR SERVICE ● TRAINING ● CALIBRATION ● TECHNICAL SUPPORT ● CONSULTATON

SYS

ENVIRONMENTAL SYSTEM INTEGRATOR CO., LTD.
222/19 Phuttha Monthon Sai 2 Road, Sala Thammasop,
Thawi Watthana, Bangkok 10170 THAILAND
TEL : +66 2 448 0771-2 **FAX :** +66 2 448 0773
E-mail : info@envisystem.com **Website :** www.envisystem.com
Facebook : Environmental System Integrator Co.,Ltd. - SYS

NUM RUBBER & LATEX CO., LTD.

WE PRODUCE HIGH QUALITY NATURAL RUBBER LATEX

Quality Assurance

We operate a management system in accordance with the requirement of ISO 9001 : 2015 while compiling with international standards.

About Our Company

We are a Thailand-based manufacturer of high quality natural rubber and concentrated latex with more than 30 years of experience by the brand of "**NUMATEX**". For the past decades, we have supplied our products to **more than 50 countries** from all continents, particularly among Southeast Asia and European factories. We aim and will continue to be fully committed in leveraging natural rubber industry with new advancements for the best solution offered.

Our Story

Our company was established in 1987. We produce Concentrated Latex and Skim Rubber Block. Since then, our company has been growing significantly both in quantity and quality of our products. In 1987, we started the operation with only 4 centrifuge machines and with storage capacity of only 400 Metric Tons. At present time, we are producing concentrated latex with 33 centrifuge machines with storage capacity of up to 4,000 Metric Tons. Our biggest assets of the company are customer confidence on our product and skilled human resources. With these assets, we have received ISO 9001 : 2000 certification since 2004.

Concentrated Latex

Our Latex is available in various standardized specifications according to your company's requirement. Our latex is used by wide range of customers such as manufacturers of gloves, condoms, latex threads, rubber foam, adhesives, etc. Since 2021, **Production capacity** was expanded to **3,500 metric tons of concentrated latex per month** with 33 centrifuge machines.

Available Packing Options: Steel Drum, Flexibag, IBC, Tank Container

Skim Block

We produce high quality rubber skim blocks. Our product is light color in natural yellow-brown and fully dried with no odor. Various rubber parts, car tires, and shoes manufacturers are our major customers for Skim Blocks.

Corporate Sustainability

Our plant is operated under environmental-cautious mindset at all time. Sustainability has always been one of our top concern ever since the beginning. Our Solar system has been successfully implemented earlier in 2021 for the first phase.

Our own innovation of the Advanced Wastewater Treatment Systemhas successfully been appreciated by our locals and later it has been set a prototype system for all latex factories in Thailand to follow by Official Environmental-concern Authority and Thai Latex Producers and Exporters Association.

EUDR Latex

Our EUDR-compliant production line has been successfully implemented. Since November 2024, we have begun exporting EUDR latex to global markets, with full reporting in accordance with the EUDR (EU Deforestation Regulation) guidelines. This marks a significant milestone in our ongoing commitment to sustainable and responsible sourcing practices.

www.numrubberandlatex.com +662-591-5148 (Auto) contact@numrubber.com

AFLatex technologies

REINVENTING RUBBER
- AMMONIA FREE-

Our **environmentally friendly** natural rubber and latex **eliminate the need for toxic additives**—offering **high performance** and **reduced allergenic proteins.**

- Odorless and non-toxic
- Superior mechanical properties
- No water treatment facilities required
- Eliminates health risks to rubber industry workes

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TO LICENSE OUR TECHNOLOGY PLEASE CONTACT.

info@aflatextechnologies.com

www.aflatextechnologies.com

Qingdao Zhongyi Weiye Machinery Manufacture Co., Ltd.

Qingdao Zhongyiweiye Machinery Manufacture Co., Ltd. was established in 1997 and is a professional equipment manufacturing enterprise that integrates research and development, manufacturing, and sales services.It has obtained multiple product patents and technical certificates, and has passed ISO9001 quality management system and ISO14001 environmental management system certifications in management. It has been awarded the title of "Qingdao Specialized, Refined, and New Technology" enterprise.

Yarn braiding machine

Wire braiding machine

Website: www.zhongyiweiye.cn

Phone	E-mail	Address
+86 133 8532 8008	zhongyiweiye@qd-zhongyi.cn	No. 3 Xinghai Road, Chengyang District, Qingdao City, Shandong Province, China

Jiujiang DoWell Rubber Technology Co., Ltd.

DoWell Tech is dedicated to the R&D, production and sales of chemical raw materials, and provides expert advice on their application solutions for our global customers.

Our core products are primarily divided into **acrylic rubber (ACM)** and modified acrylic water-based adhesives. ACM products are classified into four major types of rubber products: i. e. active chlorine, carboxyl, double cross-linking and epoxy types, while the and water-based emulsion adhesive types are available in five different categories which are broadly used in industries such as automobile, new energy technology, electric power , and related electronics, and environmental protection.

We are committed to product R&D and continuously manufacturing products which are consistently reliable, stable, and environmentally friendly, to meet our customers' evolving needs. This commitment is reflected in our corporate motto or mission of becoming a:

"Leading innovative material manufacturer and innovation through cutting edge technology, to ensure serving a sustainable development of society."

We pledge to be a model corporate citizen, a trusted partner, and an honest, reliable enterpriser that fosters long-term relationships with our customers worldwide while helping our customers to create value.

Contact Us

ADD: Jiujiang, Jiangxi Province, China

URL:www.dowellacm.com

Phone & Whatsapp & Wechat: 0086-18664973679

E-mail: steven.yang@dowellacm.com

JULONG Baoding Julong Microwave Energy Equipment Co., Ltd.

Sealing strips

Rubber hose

Engineering rubber

EQUIPMENT FOR RUBBER CONTINUOUS EXTRUSION & VULCANIZATION PROCESS

Address: No. 555 Huaguang Road, Baoding, Hebei Province, China

Tel: +86-312-5920028 /5920023 Fax: +86-312-5883170

E-mail:sales@bdjulong.com.cn WhatsApp: +86 15933448192

Website: http://jl-rubbermachine.com http://www.cnjulong.com

East Richon®

EastRichon Rubber Additives

20000 TONS ANNUAL PRODUCTION

CHINA CREDIT ENTERPRISE

TIANJIN EASTRICHON RUBBER ADDITIVES CO., LTD

EASTRICHON RUBBER ADDITIVES

FOCUSING ON THE RUBBER CHEMICALS RESEARCHING, PRODUCTION, MARKETING AND THEIR TECHNOLOGY IMPROVEMENTS.

CERTIFICATION	COUNTRY	CAPACITY	TYPES	SPECIES
ISO9001:2000	50	20000	10	100
we get certificate	Export to more than fifty countries and regions	annual production ability of 20,000MTS on rubber additives	divided into 10 categories	with more than 100 items

According to the customer requests, we could prepare our products in POWDER, in OILED POWDER, in GRANULE or in SUPER FINE POWDER,
we become one of the most successful suppliers both on variety and quantity available for rubber additives in China.

Our lustration production technology, the new technical know-how ensure our products of topquality and human cares on natural environment to make us distinguished from other suppliers.

SERVICE FOR GLOBAL RUBBER INDUSTRY

CHINA CHINESE SUPPLIERS

东方瑞创

TEL:+86-22-58613696 E-mail: info@eastrichon.com FAX:+86-22-58613677 http://www.eastrichon.com
Company Address: Gangda Rd., Liiou Industrial Park, Tianjin China
19Fl Building B,Gangji Center,Wanggang Road,Jinnan Economic Developed Zone (Western Zone),Tianjin,China

无锡双象橡塑机械有限公司 | 双象集团
Wuxi Double Elephant Rubber & Plastics Machinery Co., Ltd | DOUBLE ELEPHANT GROUP

公司介绍 Company introduction

Wuxi Double Elephant Rubber & Plastics Machinery Co., Ltd （DE） affiliated with Jiangsu Double Elephant Group, covering an area of 100, 000 square meters , with over 40 years of history , is a modernized technology enterprise which is engaged in R&D, manufacture and sales and after-sales service in the field of Rubber & Plastics Machinery .

We are specialized in the production of rubber and plastics machinery equipment: calender and auxiliary machine series, open mill series, mixing kneader series, rubber extruder series, rotary curing series, wide rubber sheet extrude calendering line, rubber conveyor belt calendering line, tire inner liner calendering line, PVC artificial leather/ film/rigid sheet calendering line, PVC flooring calendering line etc.

Our Products are very popular in China and have been exported all over the world, such as Europe, the United States , Japan, Southeast Asia, India, Turkey, South America, etc. In rubber machinery field, DE has established a good partnerships with domestic R&D institute , large scale tire enterprise, rubber product manufacturers such as Beijing R & D Institute of Rubber Industry , Guiling rubber industry R&D institute, Bridgestone (Japan), Toyo Tire (Japan), Yokohama(Japan), Continental Tire (Germany),Michelin (France), Trelleborg (Sweden),Camso(Canada),Kumho Tire (Korea), Apollo(India),MRF（India）,CST Tire(Taiwan), Kenda Tire(Taiwan),Linglong Tire, Triangle Tire, General Science Technology, Wanli Tire, Boton Technology , etc.

我们的客户 Our customers

BRIDGESTONE, TOYO TIRES, YOKOHAMA, DUNLOP, GOODYEAR

Continental, PIRELLI, TRELLEBORG, MICHELIN, CAMSO

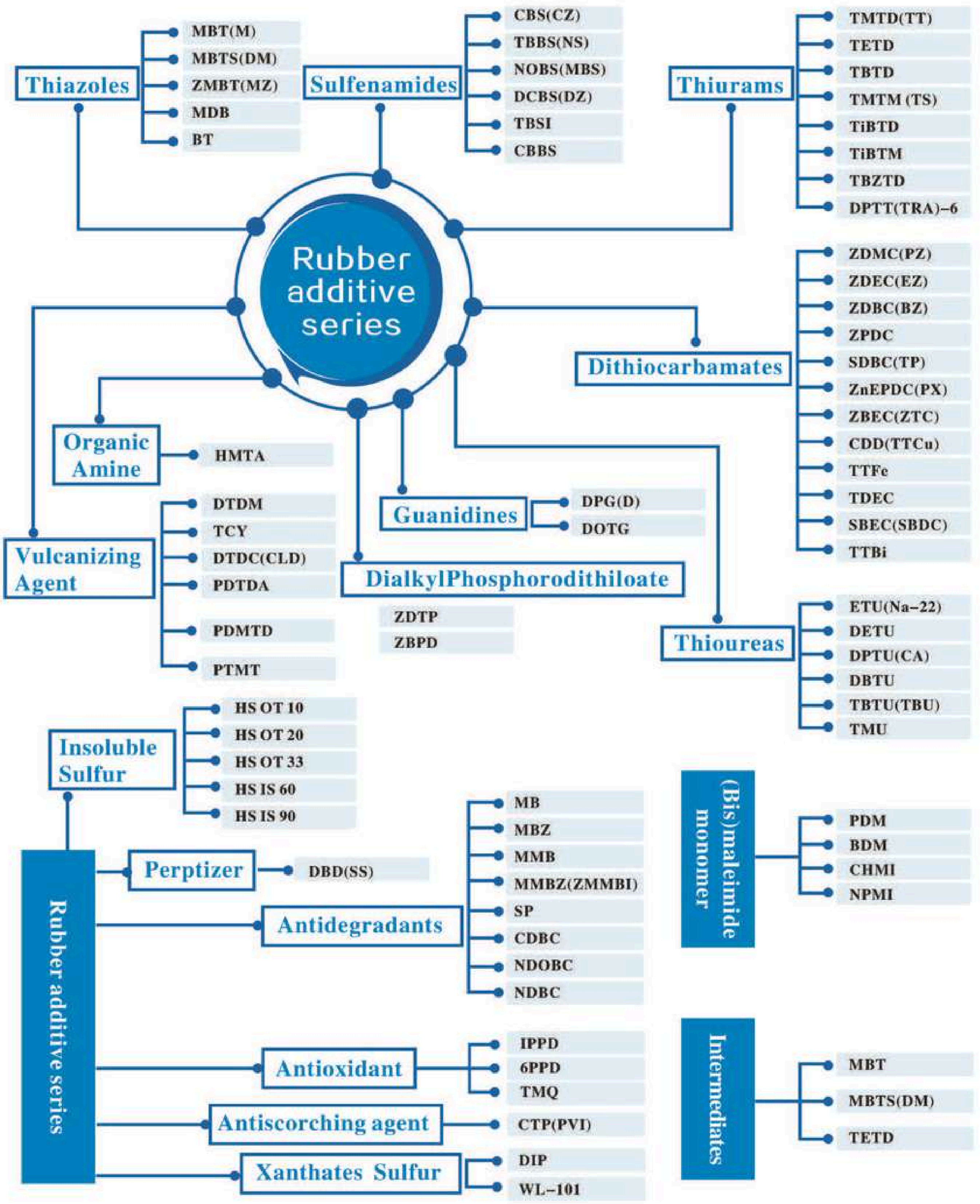
apollo TYRES, MRF, ATG, KUMHO TIRES, Giti

CST 正新轮胎, KENDA, LINGLONG TIRE, TRIANGLE, GS 通用股份

BT 宝通科技, DOUBLEARROW, SANLUX 三力士, WANLI, WD WANDA TYRE

Contact:Cloud Feng

Phone Number(Whatsapp):+86 13338106611



Address: Chemical Industry-Intensive Area, Puyang, Henan, China
MOB：+86 158 3936 2818
Email: walter@willingchem.com
Url: www.willingchem.com

XRH

XIANG RUN HAO

About Us

QingDao Xiang Run Hao Import and Export Co., ltd (Former name is Qingdao RuiTongFa rubber machinery works, which is founded in 2003) is a professional manufacturer for rubber machinery and rubber moulds such as rubber injection machine, vacuum plate vulcanizing press and automatic plate vulcanizing press, rubber joint machine. We exported rubber machine and rubber moulds to many countries such as India, Chile, Belarus, South America, South korea, South-East Asia, Japan and Russia etcs.

The total export amount is up to more than ten million US dollars.

Through many year's development, constant research and inovation, we became a bigger company with several factories to producing Automatic Vulcanizing Machine, Rubber Injection Molding Machine, Mixing Mill kneader, many kinds of rubber moulds and rubber products. We also supply technology service, rubber compound formula and moulds designing according to custmers requirements and production samples. We wish to co-operate with all customers on the basis of equality and mutual benefit.

Three years ago, we have manufactured a ultra large fully automatic plate vulcanizing press (2400T, 1600*3600) with a mould in and out for our loyal foreign customers in Chile, which is used to produce mining rubber machinery sapre parts.

We dispatch our technicians were on site to supervise installation and train their worker. The machine are received good remarks from our Chilean customers.

Web1: www.xiangrunhao.com **Web2: https://rubbermachineryltd.com** **Email1: ruitongfafa888@163.com**

Email2: sr07505@126.com **Phone1: +86 13608968028** **Phone2: +86 13553080267**

Homogenizing and Tackifying Resins

HOMOGENISATOR 501/501D
Improves the homogenous blending of polymers with different polarities and viscosities. Optimized Dispersion and process.

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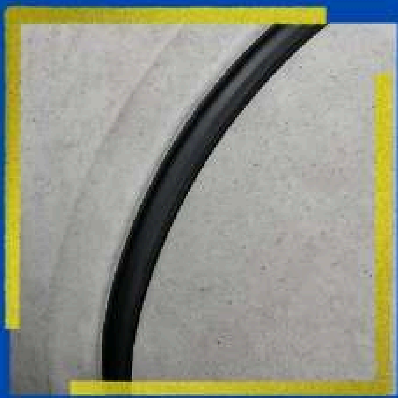

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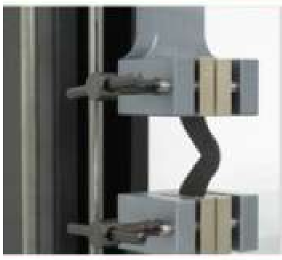



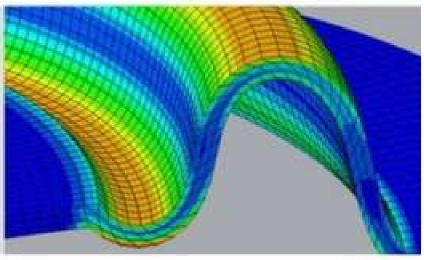
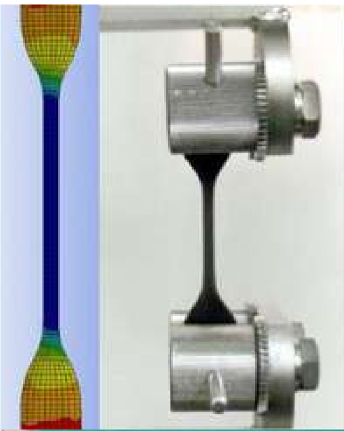




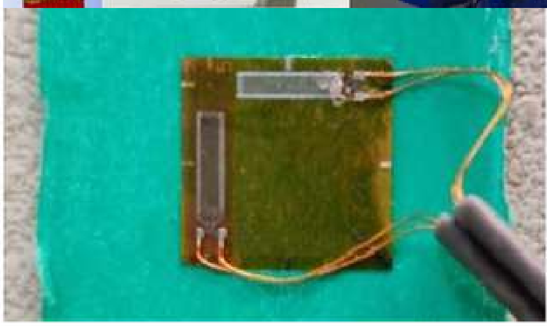

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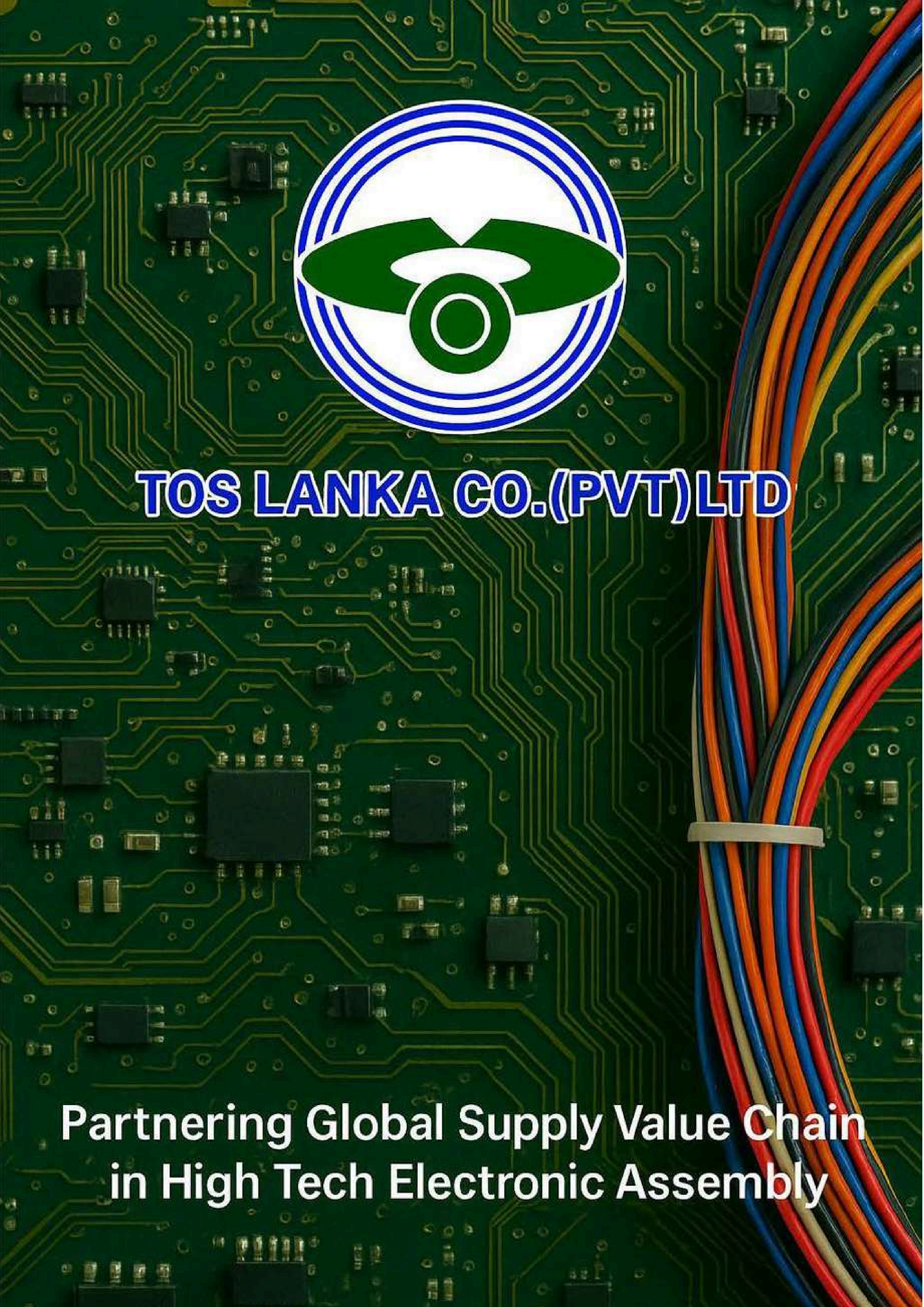
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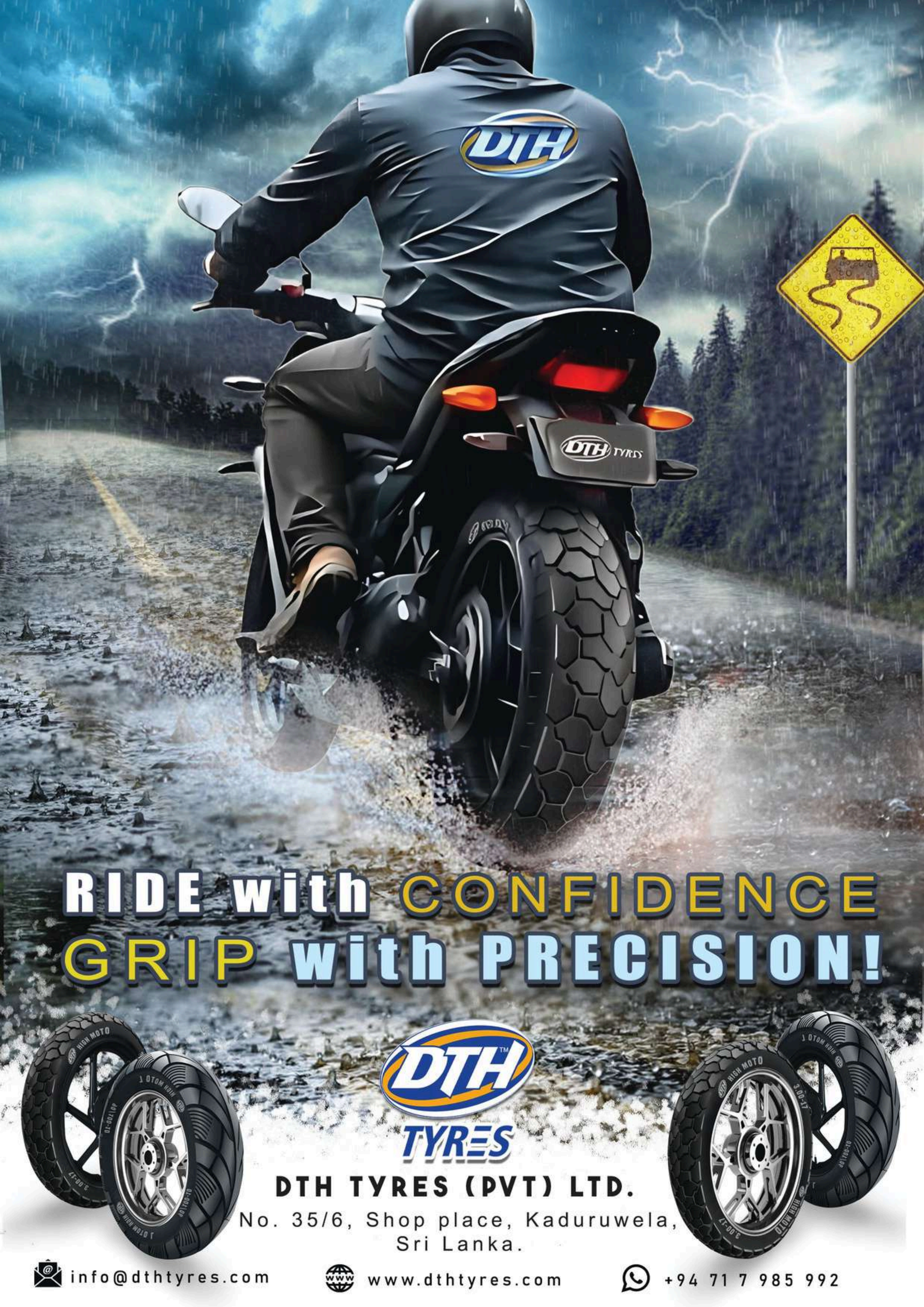
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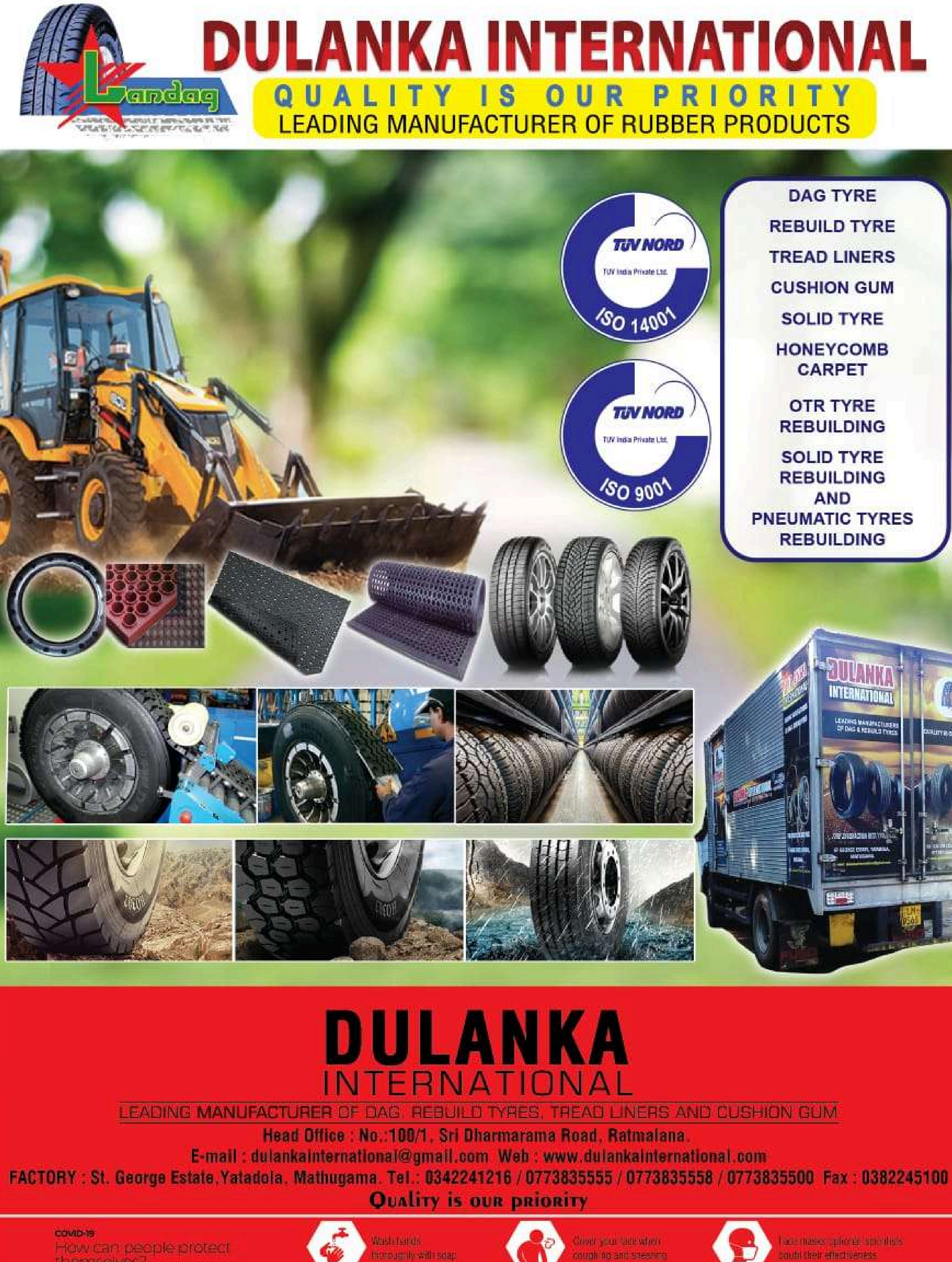
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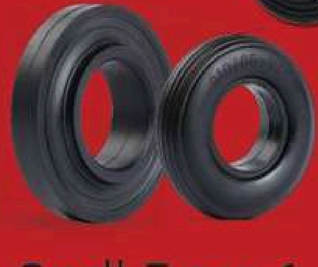

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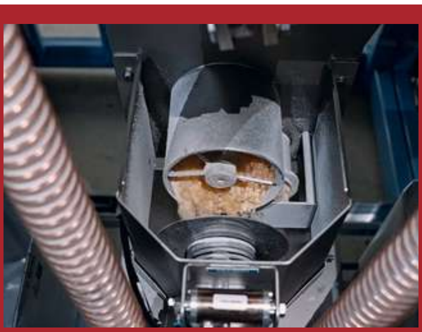

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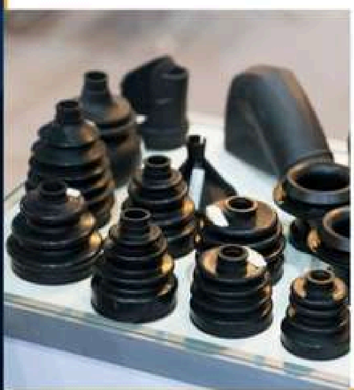


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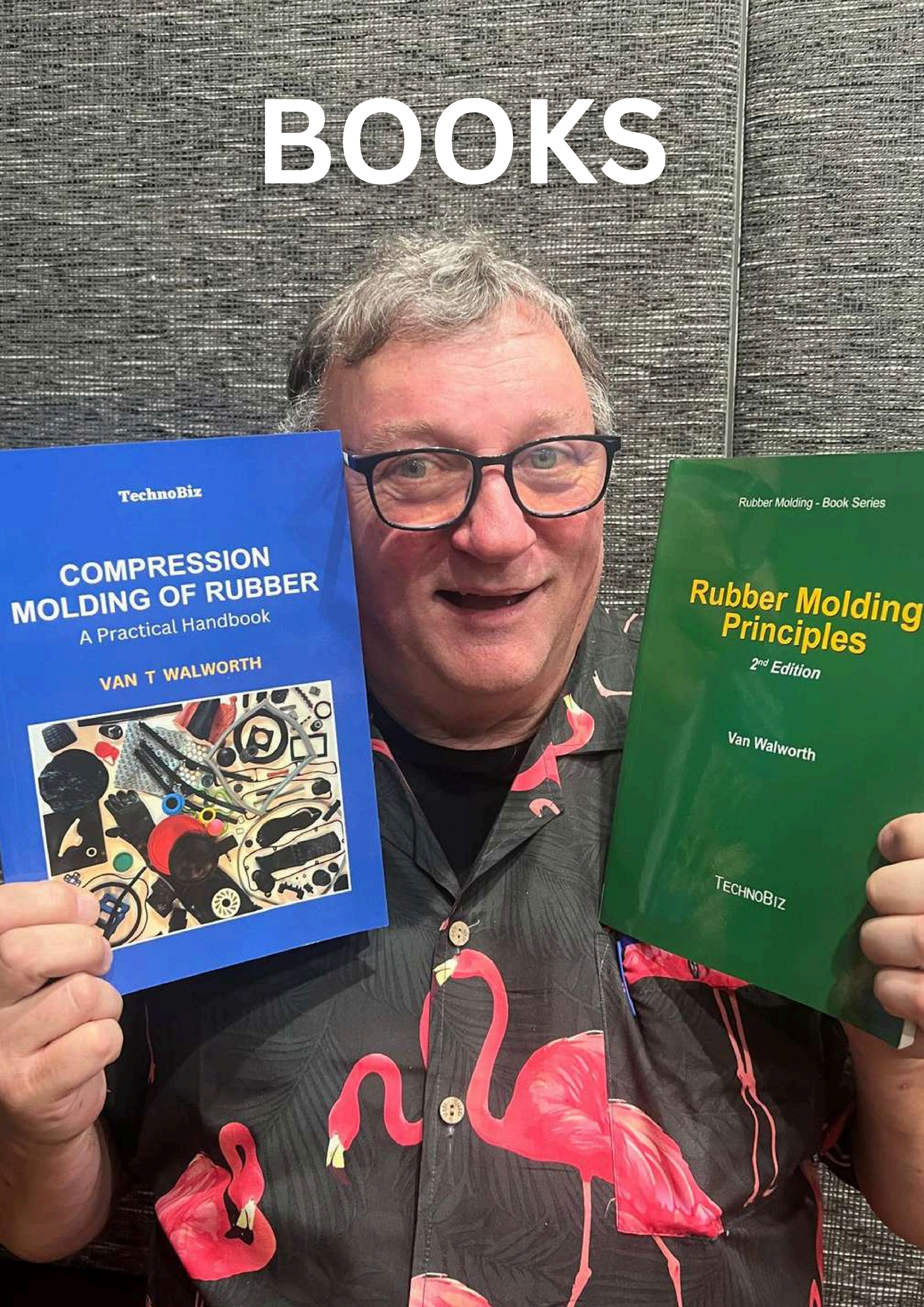
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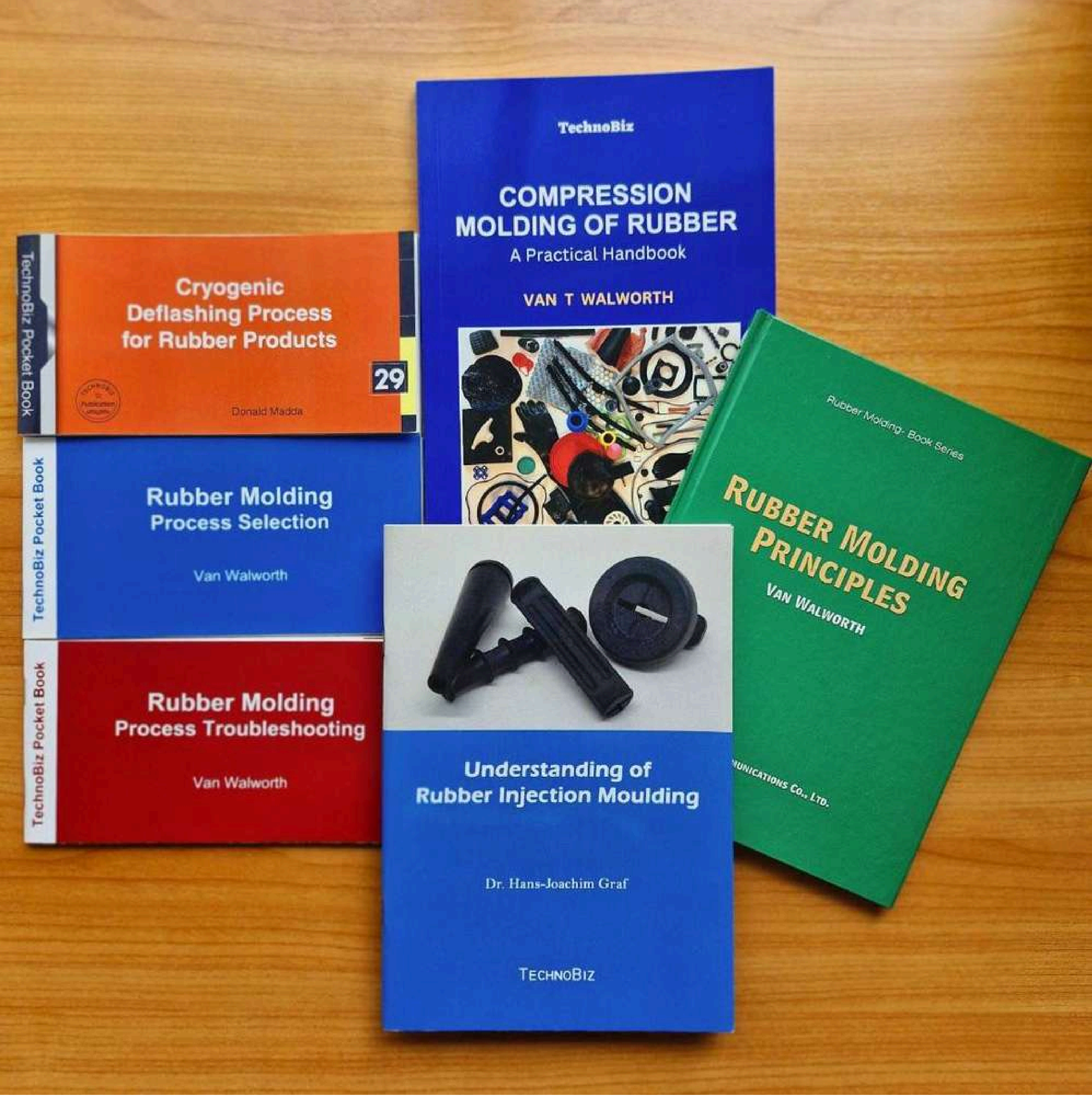
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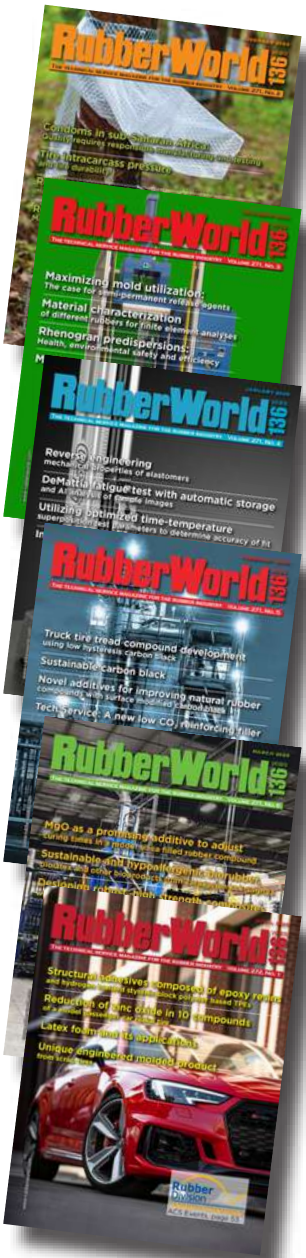

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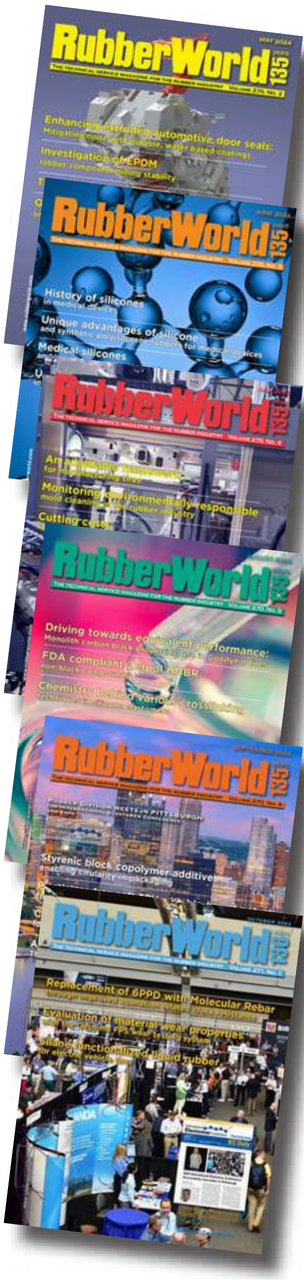

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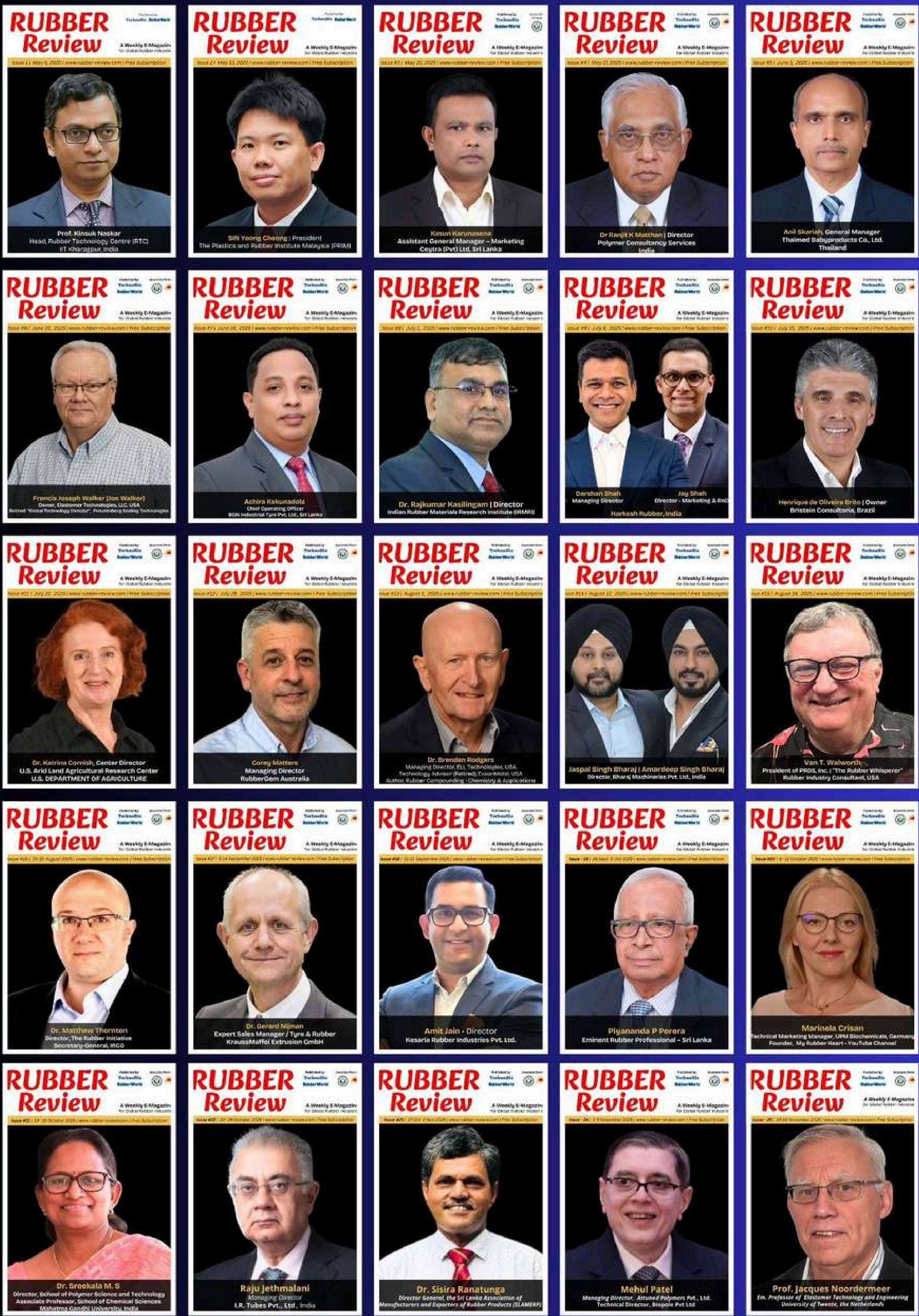

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