



BAHASAY

EXPORT IMPORT & TRADE LTD.

GENERAL CATALOG
2026 v 02

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I ENERGY & SOLAR SOLUTIONS

1. POLYUREA ANTI-ABRASION COATING FOR ENERGY & PIPELINES:

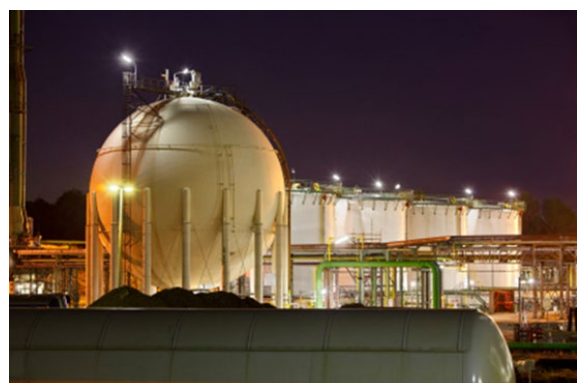
This two-component, 100% solvent-free, pure polyurea coating provides a seamless, monolithic protective layer. Designed for heavy-duty industrial environments, it offers exceptional abrasion resistance, chemical durability, and long-term protection for energy infrastructure, refineries, and pipelines. Its fast-curing nature minimizes downtime, making it ideal for operational facilities.

KEY ADVANTAGES:

- **High Abrasion Resistance:** protects pipelines, refinery surfaces, and industrial equipment against wear and tear.
- **Chemical Resistance:** withstands exposure to oil, fuel, and harsh industrial chemicals.
- **Rapid Curing :** surface hardens in seconds, ready for load-bearing within an hour, reducing downtime.
- **Seamless, Monolithic Surface:** eliminates joints and weak points, minimizing leak paths and corrosion risk.
- **Durability in Extreme Conditions:** performs reliably under thermal fluctuations and mechanical stress.

TYPICAL APPLICATIONS:

- **Petrochemical and oil refineries:** coating of metallic structures, containment zones, and processing equipment.
- **Oil, gas, and heating pipelines:** internal and external abrasion and corrosion protection.
- **Industrial floors and workshops in energy plants:** high-wear areas prone to chemical exposure.
- **Energy infrastructure installations:** protective coating for mechanical equipment, storage units, and support facilities.



2 SOLAR PANELS :

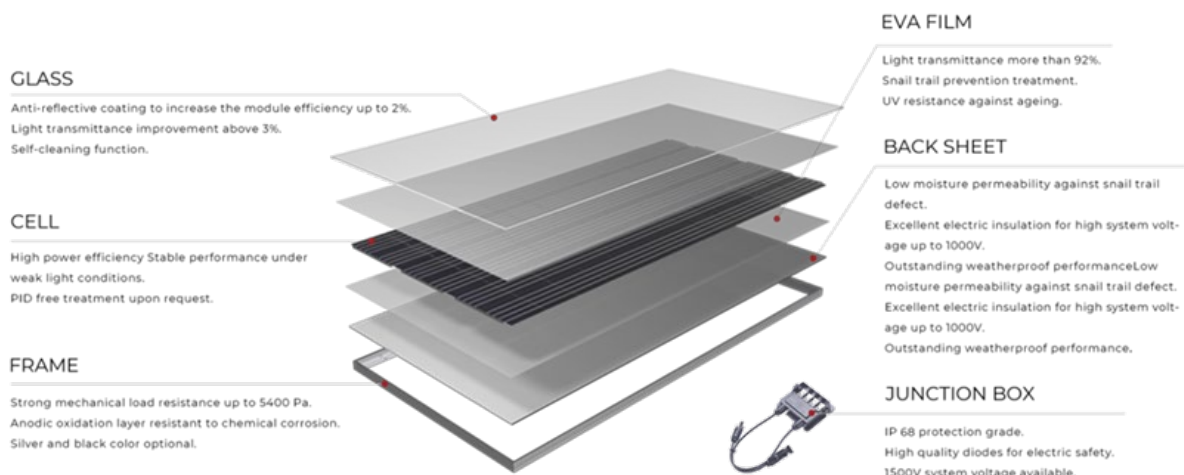
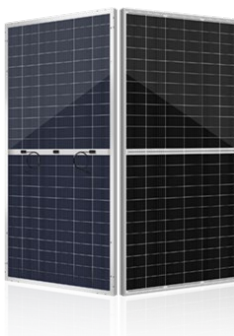
High-efficiency photovoltaic (PV) panels designed for residential, commercial, and industrial applications. These panels convert sunlight into electricity with optimized performance even in varying weather conditions.

KEY ADVANTAGES:

- High conversion efficiency, maximizing energy output per square meter
- Durable construction, resistant to UV, temperature fluctuations, and humidity
- Long operational lifespan, ensuring reliable output for 25+ years
- Flexible applications: rooftop, ground-mounted, or integrated solar systems
- Compliant with international safety and quality standards

TYPICAL APPLICATIONS:

- Residential rooftops and home solar systems
- Commercial buildings and office complexes
- Industrial facilities and factories
- Ground-mounted solar farms
- Remote or off-grid power installations
- Integrated solar solutions for smart buildings
- Compliant with international safety and quality standards



3 SOLAR PANEL MOUNTING SYSTEMS / SUPPORTS:

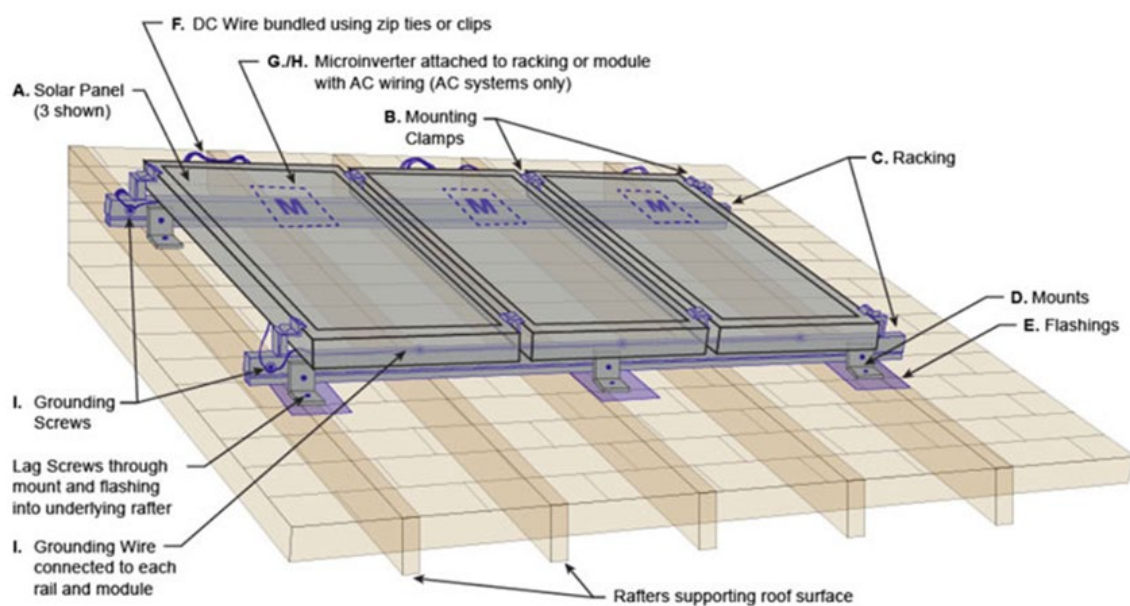
Robust and adjustable mounting solutions designed to securely fix solar panels in place, optimizing orientation and tilt for maximum solar exposure.

KEY ADVANTAGES:

- Durable materials: aluminium or galvanized steel, corrosion-resistant
- Adjustable design for optimal tilt and orientation
- Scalable: supports single panels up to large solar arrays
- Easy installation: modular systems reduce time and labour
- Compatible with standard PV panels and frames

TYPICAL APPLICATIONS:

- Rooftop solar installations for homes and commercial buildings
- Ground-mounted solar farms
- Large-scale industrial solar arrays
- Solar carports or parking structures
- Remote/off-grid solar systems
- Agricultural Solar installations (farms, greenhouses)



4 SOLAR CABLES :

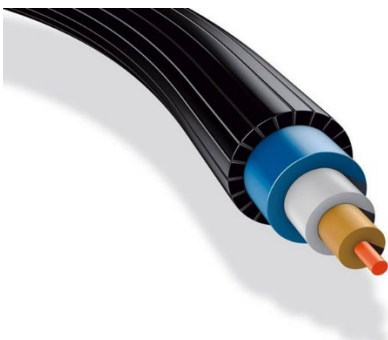
High-quality, durable cables for solar installations, ensuring safe and efficient electricity transmission from panels to inverters and grid connections.

KEY ADVANTAGES:

- UV-resistant and weatherproof for outdoor use
- High conductivity to minimize energy loss
- Flexible and durable for easy routing and long service life
- Compliant with international electrical and photovoltaic standards
- Suitable for residential, commercial, and utility-scale installations

TYPICAL APPLICATIONS:

- Rooftop solar panel wiring
- Ground-mounted solar farms
- Connections between solar arrays and inverters
- Off-grid solar systems
- Industrial and utility-scale solar projects



5 SOLAR INVERTERS :

Advanced solar inverters converting DC power from photovoltaic panels into AC electricity, suitable for residential, commercial or utility scale solar installations.

KEY ADVANTAGES:

- High conversion efficiency up to 98.3%, for maximum usable energy output.
- Wide operating range supports high DC input voltages (up to 1300 V) and broad MPP voltage window, enabling flexibility in PV string configuration.
- Robust, weather resistant design housing is fully aluminium, protection rating IP66, suited for outdoor and harsh environmental conditions.
- Scalable solutions from small systems (10 kW) to large installations (60 kW+) or utility scale plants, adaptable to various project sizes.
- Safety and reliability built in protections against overvoltage, overcurrent; compliance with relevant standards; optimized for long-term performance.
- Flexible & modular installation compatible with multiple PV panel configurations, allowing system growth or retrofit, and easy integration into rooftop, ground-mounted or large solar farms.

TYPICAL APPLICATIONS:

- Residential rooftop solar installations
- Commercial and industrial solar power systems
- Utility scale solar farms or large-scale PV plants
- Hybrid solar systems, grid tie installations, renewable energy projects



6 AGM BATTERIES :

VRLA (Valve Regulated) lead-acid batteries produced with AGM (Absorbent Glass Mat) technology. They use high-performance plates and an impregnated glass Fiber separator, ensuring there is no free liquid electrolyte inside. This design provides long-lasting, reliable power while remaining completely maintenance-free and spill-proof. **AGM batteries** are suitable for industrial, commercial, and backup power applications, including vehicles, renewable energy systems, UPS, emergency lighting, fire alarm and security systems, elevators, medical devices, ATMs, and more.

KEY ADVANTAGES:

- **Maintenance-free & spill-proof:** no need to add electrolyte, safe for handling and transport.
- **High efficiency & long-lasting:** delivers reliable power for extended periods with rapid charge/discharge cycles.
- **Durable & vibration-resistant:** compressed plates prevent active material from spilling; resistant to shocks and temperature fluctuations.
- **Minimal gas emission:** virtually no emission to the environment.
- **Versatile applications:** ideal for UPS, emergency systems, industrial backup, vehicles, renewable energy, and sensitive electronic devices.

TYPICAL APPLICATIONS:

- Uninterruptible Power Supply (UPS) systems for homes, offices, and data centers
- Emergency lighting and fire alarm systems
- Security and surveillance systems (CCTV, access control)
- Elevators and escalators in residential and commercial buildings
- Medical devices and equipment requiring reliable backup power
- ATMs, electronic scales, and other sensitive electronic devices
- Renewable energy storage (solar, wind, hybrid systems)
- Vehicles, including industrial machinery, trucks, and utility vehicles



7 GENERATORS & BACKUP POWER

7.1 DIESEL GENERATOR SETS (15–1250 KVA)

Industrial-grade gensets delivering reliable power, with robust engines and sound-proof canopies. Designed for continuous operation in factories, construction sites, and large buildings.

KEY ADVANTAGES:

- Reliable and uninterrupted power supply for industrial and commercial facilities.
- Wide power ranges from small units to heavy-duty sets for large installations.
- Durable and robust construction ensures long-term operation.
- Flexible deployment for fixed or mobile applications.

TYPICAL APPLICATIONS:

- Factories, production plants, and industrial complexes.
- Construction sites and infrastructure projects.
- Large office buildings, hospitals, and data centers.

7.2 SILENT / ENCLOSED GENERATORS (75 KVA, 80 KVA, 275 KVA)

Soundproof generators with automatic start (ATS), radiator cooling, and digital control panels. Ideal for noise-sensitive environments.

KEY ADVANTAGES:

- Minimal operational noise for residential, medical, or commercial sites.
- Automatic start and intelligent control for hassle-free operation.
- Reliable and durable design for continuous or backup power.
- Easy integration with existing electrical systems.

TYPICAL APPLICATIONS:

- Offices, hotels, and residential complexes.
- Hospitals, schools, and healthcare facilities.
- Commercial areas requiring quiet and reliable power.

7.3. MOBILE / TRAILER GENERATORS

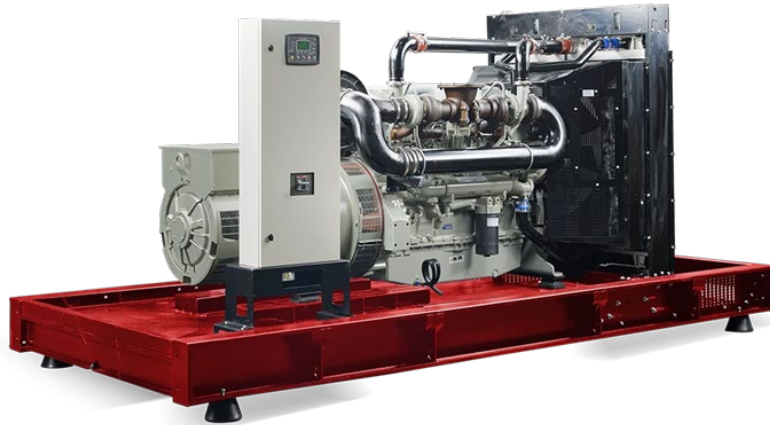
Portable gensets designed for temporary sites, construction zones, and remote locations. Combines flexibility with robust power output.

KEY ADVANTAGES:

- Quick deployment and easy transportation.
- Reliable operation in temporary or remote conditions.
- Flexible installation on trailers or mobile platforms.
- Suitable for emergency and short-term power needs.

TYPICAL APPLICATIONS:

- Temporary project sites and construction zones.
- Remote locations or off-grid operations.
- Events, outdoor worksites, and emergency response.



II

HYDRAULIC

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WATER TREATMENT

SOLUTIONS

1- POLYUREA HYDRAULIC & WATER BARRIER COATING:

This two-component, 100% solids, solvent-free polyurea coating provides long-term protection against water, abrasion, chemicals, and structural movement. Applied using high-pressure spray equipment, it forms a seamless, elastic, and fully adhered membrane suitable for concrete, metal, steel, wood, geomembranes, and geotextile surfaces. Its ultra-fast curing allows rapid return-to-service, making it ideal for hydraulic, environmental, and industrial infrastructure.

KEY ADVANTAGES:

- Seamless monolithic waterproofing membrane.
- Ultra-fast curing: ready for use within minutes.
- Strong resistance to chemicals, abrasion, impacts, and moisture.
- Excellent adhesion to concrete, metal, wood, and geotextile substrates.
- Suitable for complex shapes, vertical surfaces, and large areas.
- Long service life with very low maintenance requirements.
- High elasticity to absorb cracks and structural movements.
- Stable performance under extreme temperature variations.

TYPICAL APPLICATIONS:

- Water tanks, reservoirs, treatment plants, and pumping stations.
- Dams and dam infrastructure requiring long-term waterproofing.
- Artificial basins and retention ponds: can be applied directly over geotextile membranes.
- Canals, hydraulic channels, and irrigation structures.
- Waterproofing of tunnels, bridges, foundations, and concrete structures.
- Rehabilitation of aging water infrastructure and protective coatings for civil works.
- Anti-corrosion protection for exposed metal structures.



2- DESALINATION & ADVANCED WATER PURIFICATION SYSTEMS:

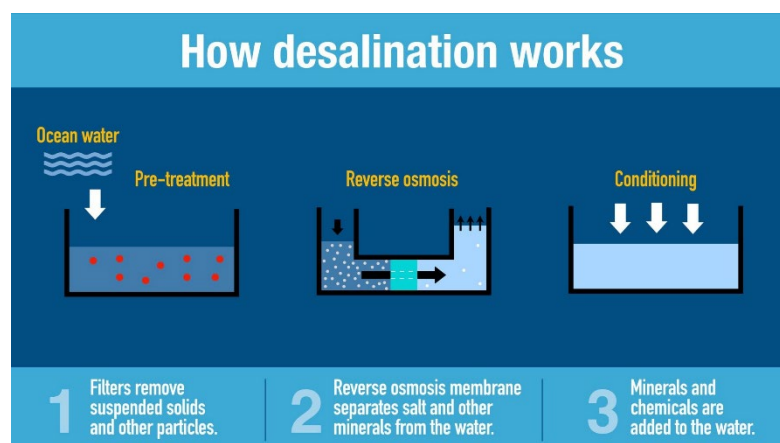
High-efficiency systems designed for seawater and brackish water treatment, using membrane distillation (MD), forward osmosis (FO), and reverse osmosis (RO) technologies. Deliver potable or process water with consistent quality and performance.

KEY ADVANTAGES:

- Membrane technologies (MD, FO, RO) for high recovery and selective salt/contaminant removal
- Low-pressure, energy-optimized designs for operational efficiency
- Modular and scalable units from small pilots to large desalination plants
- Robust construction for reliable, continuous operation under varying conditions
- Easy integration with existing piping, pumping, and monitoring infrastructure

TYPICAL APPLICATIONS:

- Seawater desalination for municipal or industrial use
- Brackish water treatment for agriculture or process water
- Drinking water production in remote or water-scarce regions
- Industrial process water supply



3- WASTEWATER TREATMENT & WATER RECYCLING - MEMBRANE BIOREACTOR (MBR) SYSTEMS

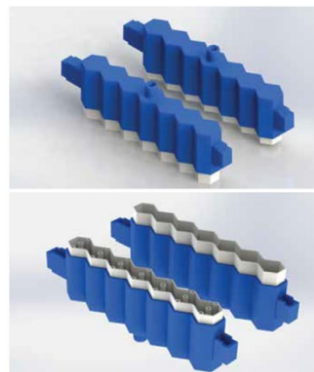
Advanced MBR-based systems for domestic, industrial, or municipal wastewater treatment. Remove organic matter, suspended solids, and pathogens, producing high-quality effluent suitable for reuse or safe discharge.

KEY ADVANTAGES:

- 90 % removal of BOD, COD, and suspended solids for high treatment efficiency
- Compact footprint due to membrane-based design
- Effluent suitable for irrigation, industrial processes, or cooling water
- Modular and scalable, from small installations to large municipal plants
- Advanced sensors and automated control for consistent operation
- Easy maintenance with modular membranes and replaceable components

TYPICAL APPLICATIONS:

- Municipal wastewater treatment and recycling
- Industrial wastewater treatment for factories and processing plants
- Water reuse for irrigation, cooling, or process applications
- On-site wastewater management for hotels, resorts, or remote communities



III

AGRICULTURE

1. PIVOT IRRIGATION SOLUTIONS :

1.1 CENTER PIVOT IRRIGATION SYSTEMS:

Mechanized circular irrigation system delivering uniform water distribution over farmland of any size.

KEY ADVANTAGES:

- Uniform irrigation for consistent crop growth
- Reduces labour requirements by up to 50%
- Efficient water use, minimizing waste
- Durable and long-lasting construction
- Easy to operate and maintain

TYPICAL APPLICATIONS:

- Large circular crop fields (cereals, grains)
- Pastures and forage crops
- Industrial-scale farming operations



1.2 LINEAR PIVOT IRRIGATION SYSTEMS:

Side-to-side irrigation setup for rectangular or irregularly shaped fields.



KEY ADVANTAGES:

- Efficient water distribution over non-circular fields
- Adaptable to uneven terrain
- Water and labour-efficient
- Durable and low maintenance

TYPICAL APPLICATIONS:

- Rectangular or irregular crop fields
- Orchards and vineyards
- Farms with non-standard layouts

1.3 UNIVERSAL PIVOT IRRIGATION SYSTEMS:

Hybrid system combining circular and linear modes for flexible irrigation coverage.

KEY ADVANTAGES:

- Combines benefits of center and linear pivot systems
- Flexible for varying field shapes and sizes
- Optimized water usage and crop yield
- Durable, robust construction

TYPICAL APPLICATIONS:

- Farms requiring both circular and linear irrigation
- Mixed-crop or irregularly shaped fields
- Large agricultural operations with variable terrain

1.4 IRRIGATION HEADERS & SPRINKLER HEADS:

High-performance sprinklers and nozzles ensuring fine, uniform spray.

KEY ADVANTAGES:

- Uniform water distribution across crops
- High efficiency, reduces water loss
- Adjustable for various crops and field conditions
- Durable, corrosion-resistant materials

TYPICAL APPLICATIONS:

- Field crops, vegetables, and orchards
- Integration with pivot or linear systems
- Horticulture and large-scale irrigation setups



1.5 DRIVE ENGINES, GEARBOXES, WHEELS & SPARE PARTS:

Durable mechanical components for pivot system reliability.

KEY ADVANTAGES:

- Long lifespan (~25–30 years)
- Low maintenance and easy replacement
- High reliability under demanding conditions
- Supports continuous operation of pivot systems

TYPICAL APPLICATIONS:

- All pivot irrigation systems (center, linear, universal)
- Large farms and industrial-scale agriculture
- Areas requiring reliable mechanical infrastructure



IV VETERINARY PHARMACEUTICALS & NUTRITIONAL PRODUCTS

We offer a comprehensive range of veterinary and nutritional products designed to support animal health, enhance growth, and maintain optimal farm hygiene. Our solutions are developed according to the latest GMP and GMP+ guidelines, ensuring high-quality, safe, and effective formulations for livestock, poultry, and other farm animals.

1- MEDICINES & TREATMENTS:

1. **Antibiotics** : treating bacterial infections.
2. **Anthelmintics** : controlling internal parasites.
3. **Anti-inflammatory drugs**: reducing pain and inflammation.
4. **Appetite stimulants / tonics** : supporting growth and vitality.
5. **External parasite control** : removing ticks, mites, and lice.
6. **Hormonal growth promotants / inducers** : supporting controlled growth and reproduction.
7. **Wound care & disinfecting products** : for rapid recovery from injuries.
8. **Disinfectants** : maintaining clean barns and farm facilities.

2- NUTRITIONAL PRODUCTS:

1. **Nutritional & feed supplements** : rich in vitamins, minerals, and amino acids.
2. **Premixes** : tailored for starters, growers, and breeders.
3. **Milk replacers** : promoting fast, healthy growth of young animals.

3- VACCINES:

1. **Vaccines** : for disease prevention and herd immunity.

PRODUCT FORMS:

- **Dry powders / Capsules** : water-soluble powders or standard capsules.
- **Pasta / Creams** : water-based or oil-based formulations.
- **Liquids** : injectables, oral solutions, and drip formulations.
- **Sprays** : powder or liquid sprays for easy application.
- **Bandlets / Plasters** : sterile antibiotic or anti-inflammatory bandlets.

KEY ADVANTAGES:

- **Comprehensive animal health coverage**: from prevention to treatment and nutrition.
- **High-quality and GMP-compliant production**: ensures safety, reliability, and efficacy.
- **Flexible formulations**: suitable for all types of livestock and production systems.
- **Optimized for farm hygiene**: disinfectants and wound care solutions for a healthier environment.
- **Supports growth and productivity**: vitamins, feed supplements, and milk replacers to improve animal performance.



V

TELECOMMUNICATION

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1- FIBER OPTIC CABLES :

Fiber Optic Cable Indoor & Outdoor . High-quality fiber optic cables suitable for indoor and outdoor installations. Designed for reliable, high-speed data transmission, these cables offer excellent signal integrity, low attenuation and robust protection against environmental stress. Ideal for backbone networks, telecom infrastructure, FTTH / FTTX deployments, and long-distance data links.



2- STRUCTURED CABLING & DATA CENTER CABLING SOLUTIONS :

Data Center Cabling & Infrastructure Solutions, a Comprehensive structured cabling systems for data centers: including distribution frames, fiber enclosures, termination units, and modular cabling modules. Built to support high-density data flow, these solutions ensure scalability, organization, and future-proof infrastructure for enterprises, corporate data centers, and telecom providers.

3- FIBER OPTIC PATCH CORDS & ASSEMBLIES :

Fiber Optic Patch Cord / Assembly, ready-to-use fiber optic patch cords and assemblies designed for seamless, low-loss connectivity between network equipment. Manufactured under strict quality control for consistent performance, they deliver reliable signal transmission and ease of installation , ideal for telecom operators, enterprise networks, and data center environments.



4- CABLE MANAGEMENT & RACEWAY SYSTEMS :

Fiber Raceway & Cable Management Solutions, durable, modular raceway systems and cable management components designed to organize and protect fiber optic wiring in data centers and telecommunication installations. These solutions ensure secure routing, respect minimum bending radii requirements, and facilitate maintenance and future expansion while optimizing safety and space usage.



5- HIGH-DENSITY MULTI-FIBER CONNECTIVITY (MTP/MPO SYSTEMS) :

High-Density Multi-Fiber Connectivity Solutions is advanced multi-fiber connectivity modules and MTP/MPO assemblies for high-bandwidth, high-density data center and telecom applications. Engineered for rapid deployment and scalability in data-intensive environments, these solutions support modern network demands and future growth.

Parfait ! Voici comment on peut formuler Key Advantages et Typical Applications pour la section Télécommunications, en restant général et sans citer le nom du producteur :

KEY ADVANTAGES:

- **High performance and reliability** : ensures consistent data transmission and network stability.
- **Scalable and flexible** : solutions designed to support growing network demands and easy upgrades.
- **Low signal loss and high integrity** : optimized for high-speed and long-distance fiber optic connections.
- **Robust and durable** : cables and components resist environmental stress, mechanical wear, and bending.
- **Easy installation and maintenance** : modular and standardized solutions reduce deployment time and simplify management.
- **Organized and space-efficient** : raceway and cable management systems improve safety, accessibility, and future expansion.

TYPICAL APPLICATIONS:

- Telecom backbone networks and long-distance links.
- Enterprise LANs, WANs, and data center cabling.
- FTTH / FTTX deployments and residential broadband networks.
- High-density data centers requiring MTP/MPO connectivity.
- Structured cabling for corporate offices and industrial facilities.
- Cable management and organized wiring in indoor and outdoor installations.



VI

CONSTRUCTION

1- POLYUREA SPRAY SYSTEM WATERPROOF :

A high-performance, solvent-free spray coating system that delivers a seamless, durable protective layer. Engineered for superior waterproofing, mechanical protection, and chemical resistance.

KEY ADVANTAGES:

- Seamless & monolithic surface
- Rapid application & fast return to service
- Durable and resilient layer
- Chemical and mechanical resistance
- Versatile substrate compatibility
- Extreme environmental resilience

TYPICAL APPLICATIONS:

- Roofs, terraces, basements, tunnels
- Industrial floors, pipelines, water tanks, and marine structures
- Hydraulic pipelines, reservoirs, and dams



2. POLYUREA-BASED SEALANT:

A high-performance, flexible, and durable sealant system for effective joint filling and waterproofing.

KEY ADVANTAGES:

- Elastic & waterproof sealing
- Excellent adhesion to multiple materials
- Durable & flexible
- Resistant to weather and environmental stress
- Easy application
- Versatile usage

TYPICAL APPLICATIONS:

- Windows, doors, façades, bathrooms, kitchens
- Industrial joints and water-exposed zones
- Roofing and general construction sealing



3. CONCRETE ADMIXTURES & ENHANCERS:

Improve concrete strength, durability, and workability for structural and decorative applications.

KEY ADVANTAGES:

- Enhances concrete strength and durability
- Improves workability for easier placement and finishing
- Increases resistance to cracking and shrinkage

TYPICAL APPLICATIONS:

- Structural concrete in buildings, bridges, and infrastructure
- Decorative concrete elements, facades, and floors
- Industrial and commercial construction projects



4. WATERPROOFING SOLUTIONS:

Comprehensive range of membranes, coatings, and additives for moisture protection.

KEY ADVANTAGES:

- Effective moisture barrier for long-term protection
- Durable and resistant to environmental conditions
- Compatible with multiple substrates

TYPICAL APPLICATIONS:

- Roofs, terraces, balconies, and basements
- Water tanks, pipelines, and wet areas



5. CEMENT & MORTAR ADDITIVES:

Enhance adhesion, flexibility, and resistance to cracking or shrinkage.

KEY ADVANTAGES:

- Improves bonding and adhesion
- Increases flexibility and resistance to cracking
- Enhances durability and performance

TYPICAL APPLICATIONS:

- Mortar for masonry, plastering, and tiling
- Concrete repair and renovation
- Industrial and residential construction projects



6. SURFACE PROTECTION COATINGS:

Protect concrete and steel surfaces from corrosion, abrasion, and environmental degradation.

KEY ADVANTAGES:

- High resistance to corrosion and abrasion
- Extends lifespan of surfaces
- Durable under harsh conditions

TYPICAL APPLICATIONS:

- Industrial floors, warehouses, factories
- Bridges, parking structures, and high-traffic areas
- Coastal and harsh-environment structures



7. INDUSTRIAL FLOORING SYSTEMS:

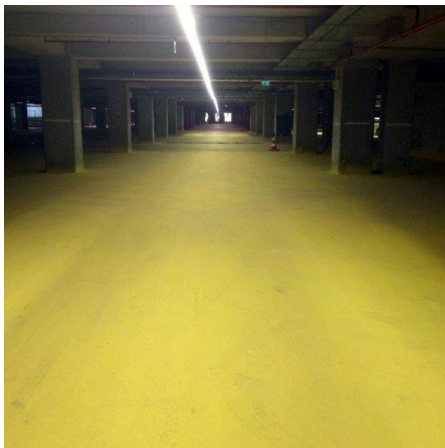
Durable coatings for warehouses, factories, and high-traffic areas.

KEY ADVANTAGES:

- Strong, wear-resistant surface
- Chemical and impact resistant
- Long-lasting and low maintenance

TYPICAL APPLICATIONS:

- Warehouses and production facilities
- Factories and industrial plants
- Commercial and high-traffic areas



8. EXPANSION JOINT SEALANTS:

Flexible, resilient sealants for accommodating structural movement.

KEY ADVANTAGES:

- Accommodates structural movement without cracking
- Durable and weather-resistant
- Adheres to multiple building materials

TYPICAL APPLICATIONS:

- Joints in bridges, roads, and buildings
- Façade and structural joints
- Industrial and commercial construction



9. ARCHITECTURAL & SAFETY GLASS:

9.1 TEMPERED GLASS (TOUGHENED GLASS)

Safety glass heat-treated to increase strength.

KEY ADVANTAGES:

- High impact and thermal stress resistance
- Enhanced safety
- Durable under environmental conditions

TYPICAL APPLICATIONS:

- Windows, doors, partitions, balconies, façades
- Interior and exterior glass walls
- Railings and guard panels



9.2 LAMINATED GLASS:

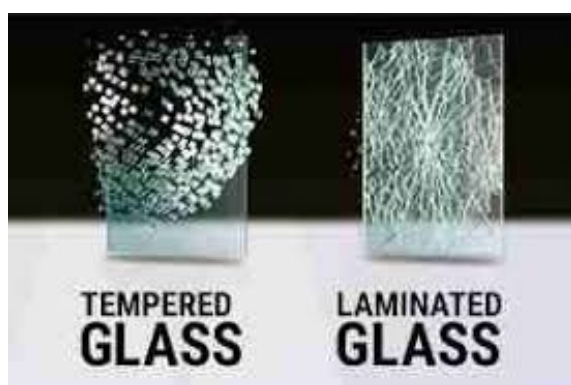
Two or more glass layers bonded with an interlayer for safety.

KEY ADVANTAGES:

- Holds shards together upon breakage
- High acoustic insulation
- Provides UV protection and additional security

TYPICAL APPLICATIONS:

- Façades, railings, skylights, glass floors
- Security glazing in offices, banks, public buildings
- Areas requiring protection against impact



9.3 INSULATED / DOUBLE GLAZING UNITS:

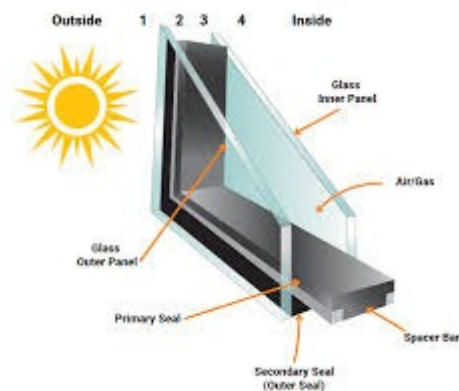
Multi-layer panels separated by air or gas cavity for insulation.

KEY ADVANTAGES:

- Excellent thermal insulation
- Acoustic insulation for noise-sensitive environments
- Reduces condensation

TYPICAL APPLICATIONS:

- Energy-efficient windows and façades
- Climate-controlled offices, residential and public buildings
- Commercial buildings, hotels, hospitals



9.4 BLINDS-IN-GLASS:

Glass panels with integrated adjustable blinds.

KEY ADVANTAGES:

- Integrated blinds for light control
- Privacy management
- Easy operation and maintenance

TYPICAL APPLICATIONS:

- Offices, conference rooms, residential buildings
- Sun-exposed façades or rooms
- Modern interior design projects



9.5 SPECIALTY GLASS OPTIONS:

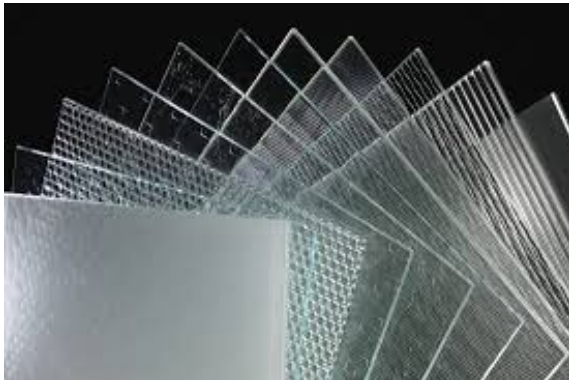
Tinted, reflective, frosted, or coated glass.

KEY ADVANTAGES:

- Customizable appearance and solar control
- Reduces glare and UV exposure
- Enhances energy efficiency and privacy

TYPICAL APPLICATIONS:

- Decorative façades, partitions, skylights
- Sun-control and energy-efficient buildings
- Résidentiel, commercial, hospital projects



VII

SECURITY

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PROTECTION SYSTEMS

High-resilience, impact-resistant protective coating designed to strengthen buildings and structures. protects surfaces from impacts and other stresses, ensuring long-lasting durability and reliable protection.

KEY ADVANTAGES:

- Strengthens structural elements
- Minimizes surface damage, enhancing safety
- Versatile use, suitable for steel structures, façades, walls, and important facilities
- Durable & reliable under various conditions

TYPICAL APPLICATIONS:

- Buildings and sensitive facilities
- Protective coatings for vehicles, fuel tanks, and containers
- Structures requiring enhanced surface protection



2- FUEL TANK SEALING SYSTEM :

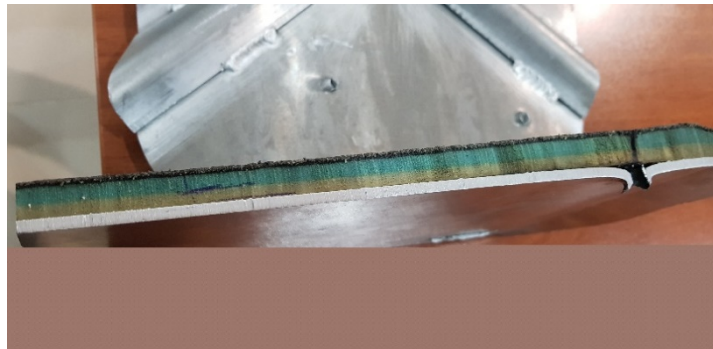
Advanced system for sealing and protecting fuel and storage tanks. Prevents leaks, corrosion, and environmental wear while maintaining long-term reliability.

KEY ADVANTAGES:

- Seals and strengthens fuel tanks and storage systems
- Protects against leaks, corrosion, chemical exposure, and environmental stresses
- Reduces operational risks
- Durable & long lasting
- Suitable for industrial plants

TYPICAL APPLICATIONS:

- Fuel Storage tanks (gasoline, diesel, LPG, CNG, jet fuel, etc.)
- Pipelines and fuel transport systems
- Industrial and Storage facilities handling flammable liquids



3- SECURITY / SAFETY GLASS SOLUTIONS

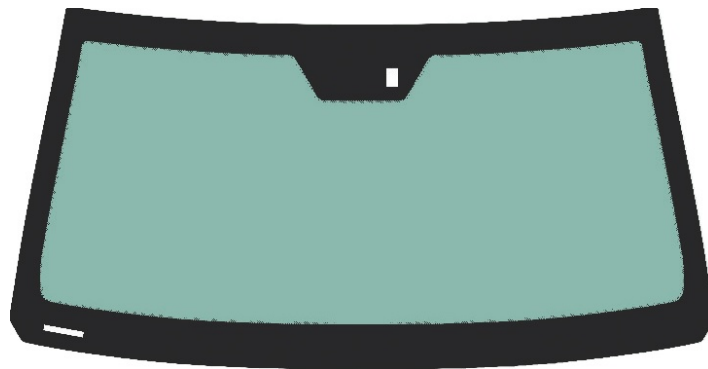
High- quality glass solutions for buildings, vehicles, maritime applications.

KEY ADVANTAGES:

- Flat or curved, tempered or laminated, customizable to project needs
- Durable and impact-resistant
- Suitable for architectural glazing, façades, windows, vehicles, and protective enclosures
- Flexible design with optional coatings for sun control or clarity

TYPICAL APPLICATIONS:

- Secure windows and glazing for buildings, offices, and facilities
- Vehicle and marine windows
- Architectural façades, doors, partitions, and protective enclosures requiring high transparency and resistance



4- INDUSTRIAL & RESIDENTIAL PREVENTATIVE SAFETY SYSTEM:

Advanced internal safety system designed to reduce risks for storage and handling of liquids and gases. Protects people, assets, and facilities while enhancing reliability.

KEY ADVANTAGES:

- Reduces risks from leaks or operational incidents
- Protects personnel, assets, and structures
- Minimizes potential losses
- Supports safety and reliability standards

TYPICAL APPLICATIONS:

- Fuel and chemical storage tanks
- Industrial plants and refineries
- Facilities with flammable liquid or gas usage



5- DISTRIBUTED ACOUSTIC SENSING SYSTEM (DAS)

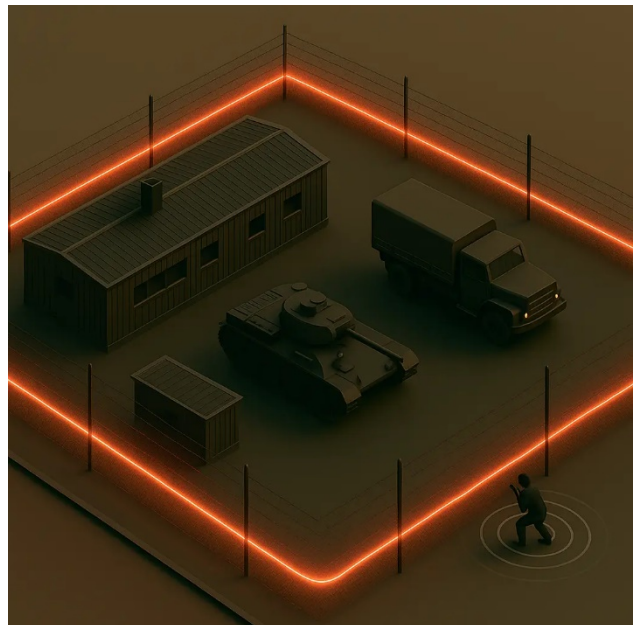
Fiber-optic monitoring solution for infrastructure and perimeter protection. Converts Fiber-optic cables into continuous sensors to detect vibrations, activity, or unusual events over long distances.

KEY ADVANTAGES:

- 24/7 monitoring of pipelines, borders, and facilities
- Detects unusual vibrations or activity
- Uses existing or new fiber-optic cables
- Integrates with other monitoring systems
- Suitable for industrial, energy, and transport networks

TYPICAL APPLICATIONS:

- Perimeter and infrastructure monitoring
- Pipeline observation
- Centralized monitoring systems
- Early alert for facilities



VIII

INDUSTRIAL EQUIPMENTS

1- INDUSTRIAL & ROBOTIC WELDING MACHINES:

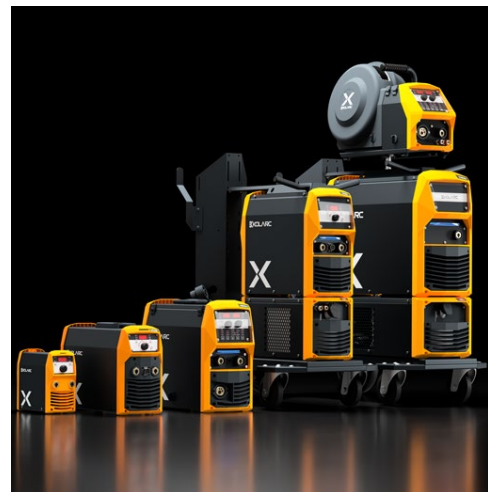
Advanced inverter-based welding machines and robotic welding systems, engineered for heavy duty industrial fabrication, metal-works, and automated production lines.

KEY ADVANTAGES:

- Supports multiple welding processes: MIG/MAG, TIG, MMA versatile for steel, stainless steel, aluminium, and alloy metals.
- High frequency inverter technology ensures stable arc, deep penetration welding, and energy-efficient performance.
- Synergic / Pulse welding programs: automated control of voltage and wire speed based on material and wire diameter, optimizing weld quality and reducing spatter.
- Compatible with robotic automation via digital I/O and robot communication interface, ideal for Industry 4.0 and automated production setups.
- Durable and reliable: designed for demanding industrial environments, ensuring long-term operational stability and reduced maintenance downtime.

TYPICAL APPLICATIONS:

- Industrial fabrication and metalworking workshops
- Robotic welding cells and automated production lines
- Heavy-duty structural welding (steel frames, metal fabrication, construction, heavy machinery)



XI

ENVIRONMENTAL RECYCLING SOLUTIONS

1- TIRE RECYCLING SOLUTIONS - PYROLYSIS SYSTEMS

Advanced pyrolysis technology for the safe and efficient recycling of end-of-life tires. This system thermally decomposes tires into valuable by-products such as fuel oil, carbon black, and steel, minimizing environmental impact and generating reusable materials.

KEY ADVANTAGES:

- Converts waste tires into energy and recyclable materials
- Reduces landfill waste and environmental footprint
- Industrial-scale, scalable, and modular for various operational needs
- Safe, reliable, and environmentally compliant process
- Ideal for industrial, municipal, and environmental recycling applications



2- WASTE RECYCLING SOLUTIONS:

Advanced solutions for the collection, processing, and recycling of industrial, commercial, and municipal waste. These systems transform waste materials into reusable resources, reducing environmental impact and supporting sustainable practices.

KEY ADVANTAGES:

- Efficient waste conversion, transforms diverse waste streams into reusable materials
- Environmental protection, minimizes landfill use and prevents pollution
- Versatile applications, suitable for industrial, municipal, and commercial operations
- Sustainable & cost-effective, Promotes circular economy initiatives and resource optimization
- Scalable solutions, can be tailored for small-scale or large-scale recycling facilities



X

MARINE POLLUTION RESPONSE SOLUTIONS

1 – POLLUTION RECOVERY VESSELS / CLEAN-UP BOATS

Specialized pollution recovery vessels engineered for the efficient removal of oil, floating debris, and solid waste from coastal, offshore, and shallow-water environments. Equipped with integrated skimming systems, conveyors, storage tanks, and filtration units, these vessels ensure rapid marine pollution response and continuous environmental protection. Their shallow-draft design allows deployment in ports, rivers, lakes, and areas inaccessible to standard boats.

KEY ADVANTAGES:

- High Recovery Efficiency: integrated skimmers and conveyor systems for fast and effective removal of oil, debris, plastics, and floating waste.
- Shallow & Deep-Water Capability: operates in extremely shallow waters as well as offshore and coastal zones.
- Fully Integrated Systems: onboard storage tanks, pumps, skimmers, booms, debris collectors, and filters.
- Rapid Deployment for Emergencies: ideal for sudden pollution events and environmental accidents.
- Durable Marine-Grade Construction: corrosion-resistant, designed for 24/7 operation in harsh marine conditions.
- Versatile Operation: removal of oil, plastics, algae, organic waste, and mixed pollutants.
- Regulatory Compliance: built according to international marine pollution control standards.

TYPICAL APPLICATIONS:

- Oil spill containment and recovery in coastal, offshore, and port areas
- Pollution control for ports, marinas, harbors, industrial waterfronts
- Clean-up of rivers, lakes, reservoirs, canals, and inland waters
- Removal of floating debris, plastics, algae, and solid pollutants
- Emergency environmental response after accidental spills
- Routine maintenance for tourist zones, beaches, and coastal cities
- Support operations for environmental agencies and marine authorities



2 – OIL & SURFACE SKIMMERS:

High-performance skimmers for recovering oil and floating pollutants from water surfaces. Available as floating suction skimmers for shallow water, they efficiently remove contaminants while minimizing environmental disturbance.

KEY ADVANTAGES:

- Efficient Oil & Pollutant Recovery: quickly separates oil and debris from water surfaces.
- Flexible Deployment: suitable for shallow and coastal waters, rivers, lakes, and harbours.
- Durable Construction: built for continuous marine operations.
- Easy Integration: compatible with vessels or standalone use.

TYPICAL APPLICATIONS:

- Oil spill cleanup in ports, rivers, lakes, and coastal areas
- Environmental emergency response
- Routine maintenance of industrial or tourist waterfronts



3 – FLOATING & COASTAL BARRIERS:

Containment barriers designed to prevent the spread of oil and floating pollutants. Suitable for shallow and deep-water deployment, these barriers protect sensitive areas and facilitate recovery operations.

KEY ADVANTAGES:

- Prevents pollutant dispersion: protects shorelines and sensitive zones.
- Easy deployment & retrieval: modular design for rapid use.
- Durable & resilient: withstands currents, waves, and UV exposure.

TYPICAL APPLICATIONS:

- Containment of oil spills in ports, marinas, rivers, and coastal areas
- Protection of environmentally sensitive zones
- Integration with recovery vessels during cleanup operations



4 – FLOATING STORAGE TANKS:

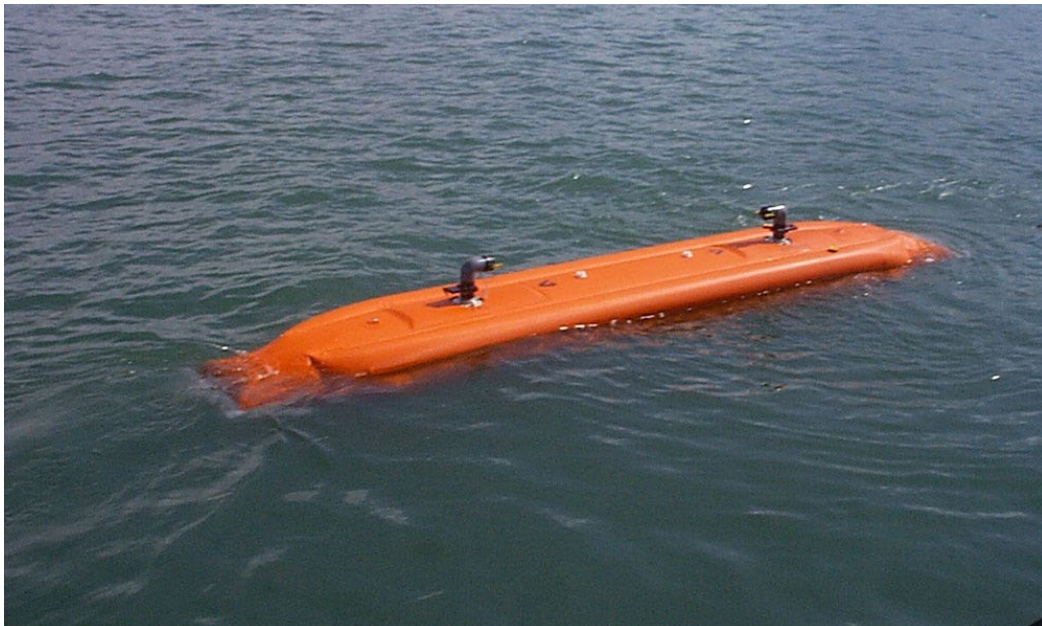
Temporary storage solutions for collected pollutants during marine cleanup operations. Constructed to safely hold recovered oil, debris, or waste before transfer or treatment.

KEY ADVANTAGES:

- Safe temporary storage: prevents secondary contamination.
- High capacity: suitable for industrial-scale recovery operations.
- Durable & portable: designed for marine and coastal deployment.

TYPICAL APPLICATIONS:

- Storage of recovered oil or debris during spill response
- Support for emergency marine pollution operations
- Offshore and coastal cleanup projects



5 – ABSORBENT BOOMS & MATERIALS:

Sheets, mats, granules, and booms designed to contain and absorb liquid pollutants such as oil and chemicals, minimizing environmental impact.

KEY ADVANTAGES:

- Highly absorbent: captures oil and chemical spills effectively
- Easy deployment: suitable for rapid emergency response
- Durable & reusable: long-lasting materials for multiple uses

TYPICAL APPLICATIONS:

- Oil spill containment in ports, rivers, lakes, and coastal waters
- Supplement for vessels and skimmers during cleanup operations
- Environmental protection in industrial or marine sites



6 – EMERGENCY RESPONSE KITS:

Pre-packaged, rapid-deployment kits for responding to oil or chemical spills. Kits include absorbents, booms, protective equipment, and collection tools for immediate intervention.

KEY ADVANTAGES:

- Rapid deployment: ready-to-use materials for urgent incidents
- Comprehensive contents: covers containment, absorption, and protection
- Portable & easy to transport: ideal for multiple sites

TYPICAL APPLICATIONS:

- Immediate response to spills at ports, marinas, coastal facilities
- Support for marine and environmental safety teams
- Quick action in industrial and shipping emergencies



XI

LIGHTING SOLUTIONS

1- LED & INDOOR / OUTDOOR FIXTURES :

High-quality LED lighting products for indoor, outdoor, industrial, commercial, and urban applications. Designed to deliver efficient, reliable, and durable illumination under diverse environmental conditions.

KEY ADVANTAGES:

- Wide range: indoor fixtures, industrial lights, outdoor & street lighting, floodlights, high-bay lights
- Energy-efficient LED technology, reduces electricity consumption while providing stable, high-quality light output
- Durable construction for long-term performance in harsh environmental conditions
- Flexible applications: buildings, streets, industrial sites, commercial installations, public lighting
- Compliance with international safety and quality standards

TYPICAL APPLICATIONS:

Office buildings, industrial facilities, warehouses, factories, streets, highways, parking lots, sports arenas, public spaces, and urban infrastructure.



2- LIGHTING SUPPORTS / MOUNTING SYSTEMS :

Robust and adjustable mounting systems for secure installation of lighting fixtures, optimizing orientation and height for optimal illumination.

KEY ADVANTAGES:

- Strong, corrosion-resistant materials suitable for outdoor and industrial use
- Modular and scalable design for single installations or large lighting networks
- Compatible with various fixtures: LED panels, floodlights, street lamps
- Simplifies installation and maintenance, reducing labor and downtime

TYPICAL APPLICATIONS:

Office buildings, industrial facilities, warehouses, factories, streets, highways, parking lots, sports arenas, public spaces, and urban infrastructure.



3- ELECTRICAL & LIGHTING CABLES :

High-quality, durable cables for lighting systems, ensuring safe and efficient power delivery for indoor, outdoor, and industrial installations.

KEY ADVANTAGES:

- High conductivity and low resistance for efficient power transmission
- Resistant to environmental factors (moisture, temperature variations) for indoor/outdoor use
- Suitable for LED and modern lighting systems
- Compliant with international electrical safety and quality standards
- Scalable: from small commercial projects to large-scale installations

TYPICAL APPLICATIONS:

Indoor and outdoor electrical wiring for offices, industrial sites, street lighting networks, commercial buildings, and integrated lighting systems.





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