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We are developing higher quality products based on safety, security and the environment.

ENGINEERING PRODUCTS

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- Guard Rail
- Wire Rope-type Protective Fence for Medians
- V-GP (Guard Pipe)
- Mamorope
- TCA-195
- Guard Rail
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- Entrance Prevention Fence
- Acrylic Translucent Panel
- Integrated Noise Guard
- Opus-T Ceramic Panel (Tunnel Interior Tile)
- Softop Gamma
- (Sound Tube-type Sound Barrier Equipment)
- Fall Prevention System

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- Mount Rock Fence
- Flexible Mighty Fence (FMF)
- Bistofence
- Rope Hock
- Suspension Cable Screen (SCS)
- Rock Net
- Curtain Net
- Plus Net
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Wire Rope-type Protective Fence for Medians
This fence prevents vehicles from crossing into the opposite lane, thereby significantly improving road safety. It has many advantages such as a compact size, high shock-resistance, and promptly recoverable structure.

Mamorope (Fall Prevention Device for Multistory Parking Systems)
Its flexible wire ropes efficiently absorb the shock of collision. This product secures a wide field of view, keeping the space bright and unoppressive. It can be used for a wide variety of shapes, which facilitates installation.

Guard Cable
Superior appearance in achieving extreme view thanks to the use of wire ropes. When a vehicle collides, the spacer distributes the energy of collision to all wire ropes, thus reducing the impact. Ideal for snowy areas, as it is less affected by differential settlement, produces fewer snowdrifts, and thus reduces snow removal work.

Guard Rail
Our guard rail has both the flexibility to absorb shock and the rigidity to resist breakage due to external forces. Its delineating function enables drivers to drive safely using the guard rail as a guide. It can also be installed on roads having tight curves.

Road Safety-related Products
Guard Cable
Superior appearance in achieving extreme view thanks to the use of wire ropes. When a vehicle collides, the spacer distributes the energy of collision to all wire ropes, thus reducing the impact. Ideal for snowy areas, as it is less affected by differential settlement, produces fewer snowdrifts, and thus reduces snow removal work.

Guard Fence
Used for various purposes, such as preventing pedestrians and bicyclists from falling out of the road or crossing the road in urban areas.

Windbreak Fence
Superior wind-breaking performance thanks to its perforated panels. It uses a wave-formed folded panel structure to ensure high strength.

Entrance Prevention Fence
Prevents entrance by outsiders into the site. As the main components are zinc-plated, it is not susceptible to rusting and has excellent workability.

Mamorope (Fall Prevention Device for Multistory Parking Systems)
Its flexible wire ropes efficiently absorb the shock of collision. This product secures a wide field of view, keeping the space bright and unoppressive. It can be used for a wide variety of shapes, which facilitates installation.

TCA-195
A slip-prevention thin-layer color pavement using acrylic resin. Boasting excellent visibility and high slip-prevention performance, for the safety of people and vehicles. Having a high durability, it can be applied to metal surfaces, which used to be difficult. Its short curing time enables work for a large area to be done in a day.

V-GP (Guard Pipe)
Less oppressive as it uses steel pipes, giving the driver a wide field of view. With its simple shape, it does not affect the surrounding landscape.
**Acrylic Translucent Panel**

These acrylic translucent panels offer excellent transparency and sound insulation, ranging from low to high frequencies. Designed to prevent scattering of fragments upon impact, they also meet the flame resistance standards of NEXCO. Moreover, they are easy to maintain and recycle.

**Softop Gamma (Sound Tube-type Sound Barrier Equipment)**

Engineered to eliminate noise through sound wave interference, Softop Gamma reduces noise more effectively than conventional sound barriers, while also handling the major frequencies.

**Road Safety-related Products**

These products create a safer, more comfortable living environment by reducing noise, and making landscapes more open and lighter. Both sound-absorbing panels and translucent panels offer excellent sound insulation, ranging from low to high frequencies.

**Ceramic Panel (Tunnel Interior Tile)**

Installation of these panels on the tunnel wall increases the illumination intensity and helps drivers to acquire visual information more easily. With excellent durability as well as flame and shock resistance, the panels make tunnels safer for drivers.

**Integrated Noise Guard**

Connects the structures on elevated roads such as highways and the foundation with wire ropes to prevent, at the time of a collision of cars, etc., objects from falling below the elevated structure or the rotation of struts by absorbing shocks.
Suspension Cable Screen (SCS)

This rock fall protection work is suitable for valley topography and mountain stream areas with concentrated rock falls. It is structured with two main ropes fixed to anchors on the foundation on both sides, a vertical beam hanging from each main rope, and wire ropes placed on both sides. With elasticity, impact resistance, and strength, it can absorb energy of 300 to 1500 kJ even in short spans in mountain stream areas, etc.

This multifunctional rock fall protection work has a wide range of applications, featuring newly developed raw materials added to existing technologies. With its new columnar structure, nets, and impact-reducing devices, it can efficiently absorb the energy of falling rocks and reduce the burden on structural components.

We have developed products to ensure safety against rockfall by analyzing data for various rockfall patterns. An extensive range of products are available, depending on the installation situation.

Possible absorbed energy
- Rock Fence: Approximately 50 kJ
- Rock Guard: Approximately 120 kJ
- Practfence: Approximately 60 kJ
- Mount Rock Fence: Approximately 30 kJ
- Flexible Mighty Fence (FMF): Approximately 200 to 800 kJ
- Bistofence: Approximately 150 kJ
- Wire rope: Approximately 100 kJ
- Hanging vertical beam: Approximately 100 kJ
### Rock Net

**Pocket-type Rock Net**
This is designed to absorb the energy of falling rocks through an integrated movement of the rock fall and the net. With the upper part of the net kept open like a pocket, it can be applied to rock fall that occurs above the net itself.

**Covering-type Rock Net**
This construction method completely covers a slope where there is a risk of rock fall. It prevents rock fall by a net that controls loose and rolling rocks by sticking to the slope. In addition, if a rock fall develops, the net guides the rocks to the foot of the slope by covering them.

### Curtain Net

This is a high-energy-absorbing protection work capable of absorbing repeated rock falls within the designed elastic limit. With the upper part of the net kept wide open and with a wide column interval, it can handle rock falls that develop high up without the columns being damaged.

### Anchor

**FR Anchor**
Integrated with a wire rope, this anchor for earth and sand areas has a high resistance regardless of the ground condition (soil property). The design resistance is a maximum of 290 kN.

**Root Anchor**
With a wide range of soil volume involved in resistance, this anchor for earth and sand areas constantly exerts a high resistance. Anchors with a design resistance of up to 105 kN are available.

**Break Anchor**
This is a highly reliable anchor both for earth and sand areas and earth covering areas capable of resisting the drawing direction load while leaving the horizontal load resistance as it is. The design resistance is 25 kN and 35 kN.

### Plus Net

This product reduces the load on anchors and has double the strength of a rope net with new anchors additionally installed at the center of four anchors connected to the main rope.

### Box Wall (Basket Frame)

This is used for an extensive range of applications, such as stabilizing the slope, or for bank protection and small check dam works. Installation is easy. Moreover, after installation, plants grow thickly on it, forming a natural landscape.

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**Pocket-type Rock Net**

Possible absorbed energy: 150 kJ

Guides rock fall by sticking to the slope

**Covering-type Rock Net**

Possible absorbed energy: 400 kJ

**Curtain Net**

**FR Anchor**

**Root Anchor**

**Break Anchor**

**Plus Net**

**Box Wall**

**Mighty Net**

Effectively promotes greening

**Tough Flexible Frame (TFF)**

Prevents landslide on unstable geological formation

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**Slope-related Products**

Solutions for slopes using wire ropes and wire meshes are available. These products can be installed on the side of roads having almost no shoulder, creek-like terrains, or significantly changing natural slopes.
This product prevents slope avalanches by installing it on existing small steps. With fewer cornices generated, it promotes snow melting through the entire slope with the radiated heat from the fence in the snow melting season. Its low profile does not affect the natural landscape in the non-snow season.

**Snow Jetter (High-Performance Snow Fence) / Quartering Wind-compatible Snow Fence**

Reducing snowdrift on the road by preventing the flying of snow with the lower non-perforated plate, and blowing snowstorm out of the road with the upper blow-up plate, thereby securing better visibility. The quartering wind-compatible snow fence changes the orientation of quartering wind, and carries snow out of the road. It provides an excellent effect against quartering wind parallel to the road or at an angle of up to around 45°.

**Warm-Air Snow Fence**

Reduces the impact of snowstorms on visibility, as well as snowdrift on the road. Passing snowstorms under the fence by concentrating it to within 1 m or less from the road surface, thereby securing the driver’s field of view. The standard fence height is 3.5 m.

**Snowy Area-related Products**

These products prevent lifelines from obstructing traffic due to avalanches, snowstorms, and snowdrifts in the winter season.

**Fence Hanging-type Snow Guard**

The fence body is fixed with an anchor and wire rope. Since it requires less drilling, the guard can be installed at places where it is difficult to drill, such as steep slopes with an angle of 50° or more, or soft ground. Mainly suitable for slopes having a snow depth of 4 m or less, it prevents total or surface layer avalanches.

**Delta One**

Unlike conventional avalanche fences, this product is installed vertically (and not perpendicularly to the slope), thus controlling cornice generation and reducing the risks. It can also be installed in a compact space since it requires no supporting ropes, and there is no risk of fence lifting or turnover due to the settling force of accumulated snow.

**Fence body**

**Anchor**

Controlling cornice generation with vertical installation.
Tie Rope

Our tie rope significantly improves the efficiency and economy of the steel pipe sheet pile method. Having a high tensile strength, it can be easily transported, requiring no supports such as turnbuckles or joints. It is widely used for development of ports, reinforcing soft ground, and securing rivers.

Rock Mat

Rock Mat has a structure that combines a mattress basket, wire rope and safety sling. It realizes more efficient wave extinguishing or foundation consolidation by accumulation of mattresses. Excellent workability and economy.

Tsunami Barrier

This barrier controls the inflow of ships, wood, and containers from the sea into the land when tsunami waves arrive, and prevents houses, vehicles, etc., being carried out to the sea by the rip current. Effective for alleviating damages by tsunami, thereby protecting human life and property in the coastal strip.

MT Rock Box

MT ROCK BOX is a method most commonly used for rivers, paved roads, landslide prevention sites with erosion control as a Gabion construction method. It enhances the resistance from pressure behind by using Ø8.0 wire net, and Ø13 or Ø16 steel bar frame, strengthening and widening the frame, flexible as well as multi-purpose structure.

Construction Cable

Our bridge cables are used for the Great Setsu Bridge, the Rainbow Bridge, the Akashi Kaikyo Bridge, etc., and are highly evaluated by both domestic and overseas customers. We offer a broad range of product lines, including NEW-PWS, PWS, spiral ropes, locked coil ropes, and strand ropes.

Bridge Cable

Our bridge cables are used for the Great Setsu Bridge, the Rainbow Bridge, the Akashi Kaikyo Bridge, etc., and are highly evaluated by both domestic and overseas customers. We offer a broad range of product lines, including NEW-PWS, PWS, spiral ropes, locked coil ropes, and strand ropes.

Small-scale Suspension Bridge

The biggest appeal of suspension bridges is the thrill they offer with a safe structure, while harmonizing with the natural environment. We satisfy customer needs through our integrated production system from design and manufacturing to maintenance.

Pipe-type Bridge Fall Prevention System

This system has a simple structure to prevent falls with plastic deformation of pipes. Extremely compact, it can be installed in a narrow place where conventional brackets are difficult to install.

Among the superb characteristics of wire ropes are high tensile strength and flexibility, which significantly improve the freedom of design, resulting in buildings with a variety of structures and novel designs. In recent years, they have been used for new structures such as glass supports, and so their applications have been expanding further.

River and Port-related Products / Steel Structure-related Products

We powerfully support river and port facilities with high corrosion-resistant plating technology and rich experience built on the development of wire rope.

Steel Structure-related Products

Our wire ropes are considered to be world-class in quality. They are used in many landmarks.

ENGINEERING

PRODUCTS

We offer a broad range of product lines, including NEW-PWS, PWS, spiral ropes, locked coil ropes, and strand ropes.