Nets and meshes made of high-tensile steel wire

CUSTOMIZED SOLUTIONS FOR IMPACT PROTECTION
Your safety requirements are just as individual as you. Our customized systems are constructed on the basis of high-tensile nets, which are extremely effective in protecting humans and infrastructure from flying debris and shrapnel. These solutions are used in chemical plants and destructive testing facilities. Other areas of applications are where machinery can release moving components as well as in storage areas containing explosive substances.
WE CAN PROVIDE YOU WITH THE COMPLETE SAFETY PACKAGE.

When it comes to complex customer requirements, there is no such thing as a one-size-fits-all solution. We are available as a full-service provider and contact point along the entire process chain. All you have to do is tell us where you’d like us to get involved. You can rely on our many years of know-how which makes us specialists at all project levels.

CONSULTING
- On site by our specialist
- Presentation of net types
- Feasibility studies
- Structural calculations
- Simulations

PLANNING
- Design and detailed planning
- Dimensioning of material requirements

PRODUCTION
- Customized net production
- Supply of all materials including connection hardware

INSTALLATION
- Full installation
- Alternatively, installation support/training

ADDITIONAL SERVICE
- For extensions/changes to the project
- If an event occurs, fast inspection and maintenance plan

APPROVAL
- Inspection
- Safety check
- Final approval
OUR SOLUTIONS ARE AS INDIVIDUAL AS YOUR PROJECTS.

Our extremely high strength protective nets make the perfect choice for use as blast protection. Safety nets provide protection from flying debris, shrapnel and other objects with very high impact forces. Typical fields of application are in areas where moving parts can be mobilized, or where falling objects or explosions can endanger human lives or damage infrastructure. Geobrugg provides a single source cost-effective solution from the initial feasibility study by our engineers, to deliver of materials and on-site assembly.

Our protective nets make perfect solutions in many fields of application:

**Impact protection**
We develop our systems on the basis of high-tensile steel wire nets and meshes. They are well-suited for a wide variety of danger zones to protect humans and infrastructure.

**Explosion protection**
In industrial environments in particular, explosions, deflagration or similar dangers can occur. Customized solutions are needed to fulfill individual requirements.

**Traffic safety**
Based on our experiences in the field of motor sports, we offer temporary barriers which, for example, protect street traffic from falling pieces of rock during construction and direct traffic at the same time.

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**ROMBO steel wire mesh**
Made of high-tensile steel wire with a patented rhomboid mesh shape and knotted ends. Various mesh widths and wire diameters are available.

**SATURN ring net**
Spiral rope net made of high-tensile steel wire in which every ring is sealed with press sleeves.

**MAXX steel wire mesh**
MAXX is a spiral rope net made from three high-tensile steel wires twisted around one another. Ideally suited for break-in/break-out protection applications.
QUALITY YOU CAN RELY ON.

Our impact protection systems provide the following features:

**High-tensile steel wire**
With a tensile strength of 1770 N/mm², it enables maximum load absorption with minimal deformation. A relatively small amount of material is needed to protect against very high impact energies.

**Brake elements**
Thanks to our brake elements, our systems enable first-class deformation and energy absorption behavior.

**First-class corrosion protection**
With GEOBRUGG SUPERCOATING®, our nets have a four- to six-time longer lifetime compared to conventional zinc galvanized wires.

**Simple to install**
Lightweight components reduce the amount of work required during transport and construction. Manuals and our assembly support service ensure a smooth and efficient installation process.

**High cutting resistance**
Standard tools cannot cut through the tough mesh without difficulty. Our high-tensile steel wire nets and meshes are extremely resistant to impacts at high speeds.
We don't leave safety to chance.

A feasibility study by our engineers is the starting point of many projects. In case this survey is positive, our experts develop and simulate the best possible solution in cooperation with our clients. For this purpose, we use powerful tools such as the program Inventor or dynamic multiple-body simulations. Geobrugg offers a one stop shop with design, production and implementation of your solution. All information and expertise flow directly into the final product. This means our projects proceed efficiently and you can rest assured that the systems will be implemented exactly according to your requirements.
**TECHNICAL DATA:**

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>ROMBO G30/4</th>
<th>ROMBO G30/4 S</th>
<th>ROMBO G65/4 S</th>
<th>ROMBO G80/4 S</th>
<th>MAXX</th>
<th>SATURN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire/spiral rope diameter</td>
<td>4.0 mm</td>
<td>4.0 mm</td>
<td>4.0 mm</td>
<td>4.0 mm</td>
<td>3 x 4 mm / 9 mm</td>
<td>3 mm x 7, 12, 16 or 19 windings</td>
</tr>
<tr>
<td>Mesh width/opening</td>
<td>30 mm</td>
<td>30 mm</td>
<td>65 mm</td>
<td>65 mm</td>
<td>80 mm</td>
<td>130 mm</td>
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<tr>
<td>Steel wire tensile strength</td>
<td>≥ 1,770 N/mm²</td>
<td>≥ 1,770 N/mm²</td>
<td>≥ 1,770 N/mm²</td>
<td>≥ 1,770 N/mm²</td>
<td>≥ 1,770 N/mm²</td>
<td>≥ 1,770 N/mm²</td>
</tr>
<tr>
<td>Corrosion protection*</td>
<td>SUPERCOATING®</td>
<td>SUPERCOATING®</td>
<td>SUPERCOATING®</td>
<td>SUPERCOATING®</td>
<td>SUPERCOATING®</td>
<td>SUPERCOATING®</td>
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<tr>
<td>Weight per m²</td>
<td>6.7 kg</td>
<td>11.5 kg</td>
<td>3.3 kg</td>
<td>4.7 kg</td>
<td>2.6 kg</td>
<td>5.0 kg</td>
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<tr>
<td></td>
<td>5.2 kg – 13.5 kg</td>
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</tbody>
</table>

*Available as stainless steel model on request. **Weight depends on the number of windings.

We reserve the right to make technical changes.

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You can find additional projects in our project database:

More information is available on our website:
[www.geobrugg.com/impact](http://www.geobrugg.com/impact)

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Our specialist for safety applications will be happy to advise you:

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