

## Miilux general information

Miilux Poland Sp. z o. o. is part of the Miilukangas group which was established in 1967. Our production facilities are located in Poland, Finland and Turkey, where we have excellent transport connections by sea and by land.

The company's activities and quality are managed using documented operating system based on **ISO 9001 (quality)**, **ISO 14001 (environment)**, **ISO 3834-2 (welding)** and **OHSAS 18001 (safety)** as well as the goals set by the management of the company.

Miilux Poland has also implemented the WSK system (Internal Control System) and has a Concession of the Ministry of the Interior and Administration to conduct business activity in the field of production and trade of products and technology for military or police purposes (licence No. B-069/2018).



# Miilux® OY

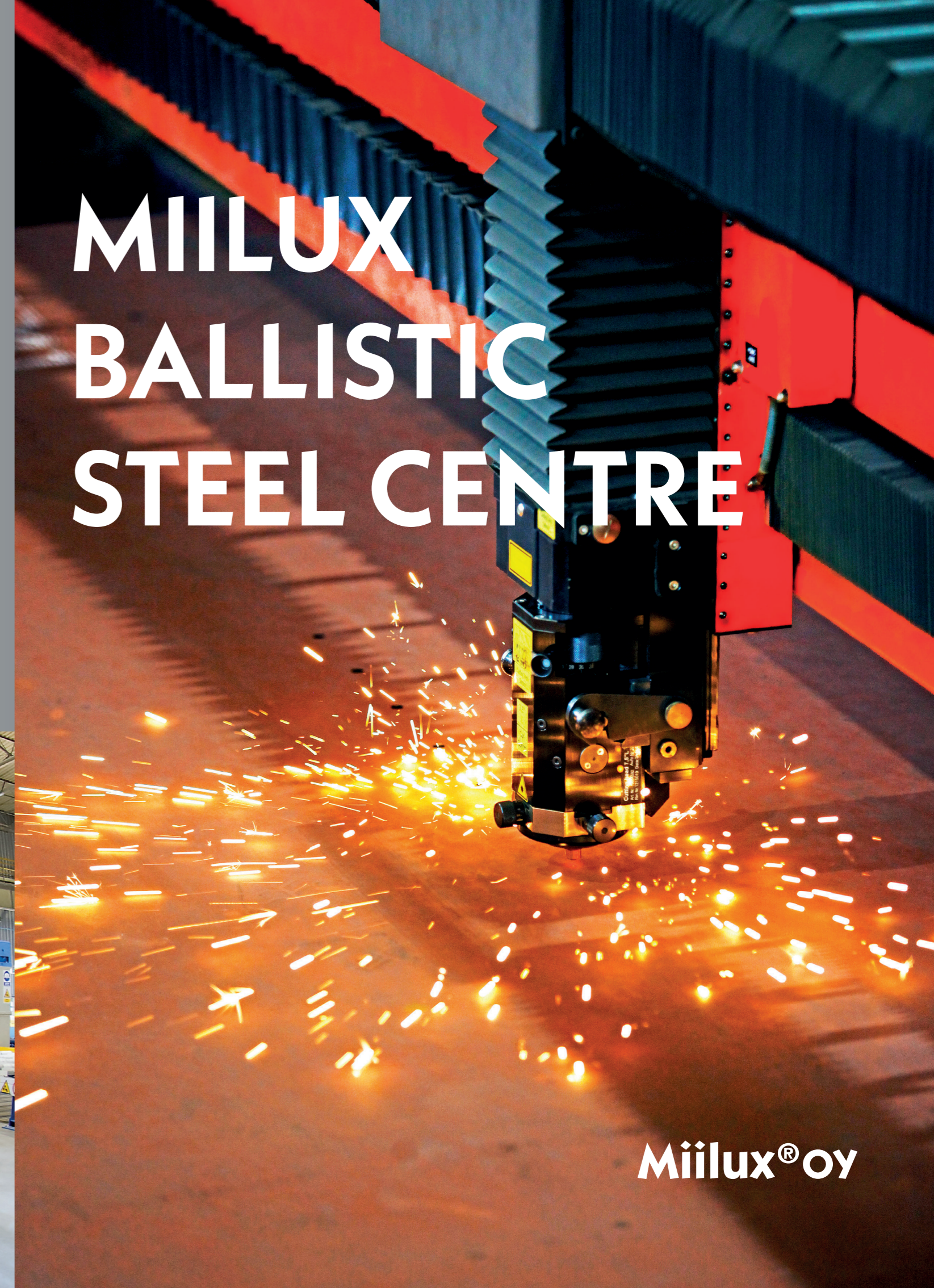
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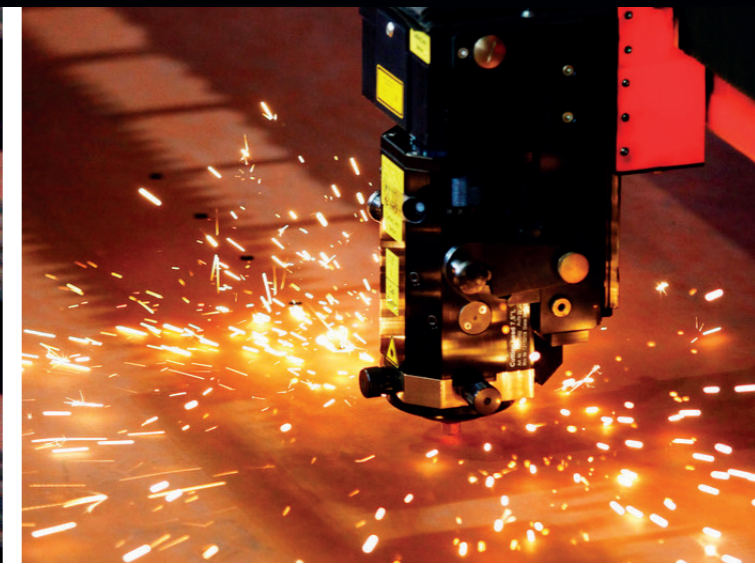
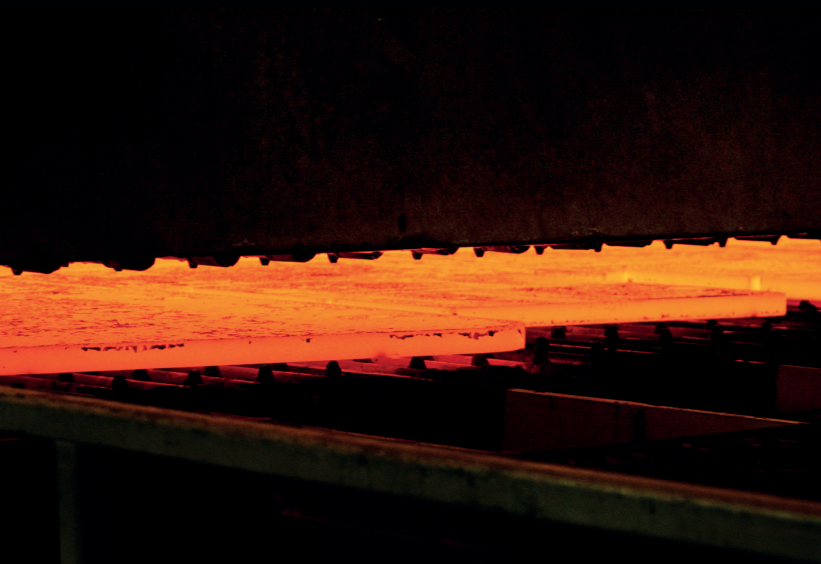


All information regarding the properties and use of the materials and products mentioned in this brochure is for reference only.



# MILUX BALLISTIC STEEL CENTRE

Miilux® OY



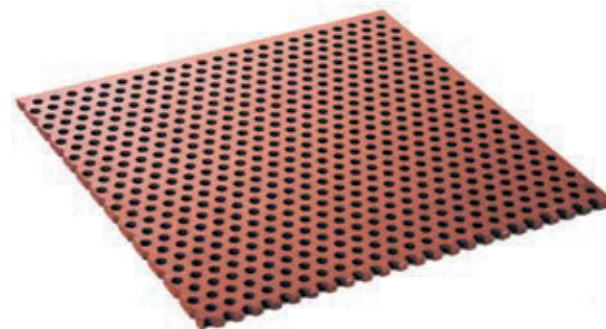
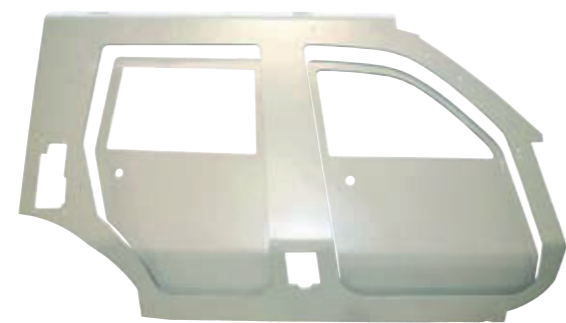
## Armor solutions

Miilux Protection armor steels are high-quality steels designed in Finland for the demanding ballistic protection applications, such as:

- protective elements of buildings, e.g. shooting ranges, ATMs, banks, safes, etc.,
- special vehicles, e.g. police and military vehicles, bank cars, limousines, bulletproof vehicles, etc.,
- many other applications in the defense industry.

Miilux manufactures armor steel plates and precision elements made to the required dimensions, ready for assembly, with short delivery times.

Miilux Protection steel plates and elements are anti-corrosion protected on the surface – plates with a thickness of more than 5.0 mm are usually covered with a primer (priming) paint, but they can be also supplied purified by shot blasting and coated with a corrosion inhibitor (also applies to thinner sheets).



## Quick deliveries worldwide

We make quick deliveries directly from our warehouses in Tarnowskie Góry – Poland, Raabe - Finland, Manisa- Turkey and Dubai – United Arab Emirates.

For most of the armored plates stored in our warehouses, we have ballistic tests results for each steel heat (according to standards, among others: STANAG 4569, VPAM PM2007 or EN1522).

Ready-to-install products, made of armored steel Miilux Protection can be delivered as components cut by plasma, laser or water jet, they can also be bent, welded, machined and surface treated.

Armor steel components can be made from any grades of Miilux Protection, as requested and according to customer specific requirements.

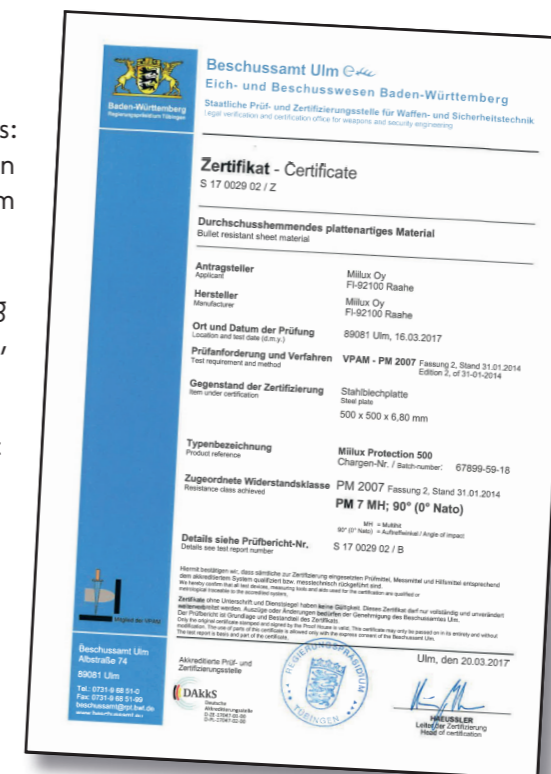
## Miilux Protection steels

Miilux armor steels are produced in the following grades: 380, 400, 400T, 450, 500 and 600, and are available in the thickness range of 2.5-60 mm, where the maximum sheet dimensions are 2500x6000mm.

Miilux Protection armor steels are tested according to such standards as: PM2000, VPAM PM2007, EN1522, STANAG 4569, MIL-DTL-12560 and MIL-A-46100D.

Miilux Poland cooperates with several ballistic laboratories in many countries all over the world and is able to carry out any test and make deliveries according to customer specific requirements.

More information on the results of carried out tests and certificates, as well as implementation possibilities of specific requirements, please refer to our website [www.miilux.pl](http://www.miilux.pl) or contact us directly.



## Technical specification Miilux Protecion 500 and 600

Steel grade	Nom	Thickness	Thread	Bullet weight	Shooting distance	Striking velocity
Protection 500	EN1522 FB3	2.5 mm	.357 Mag	10.7 g	5 m	430 +/- 10 m/s
Protection 500	EN1522 FB4	3.0 mm	.44 Mag	15.6 g	5 m	440 +/- 10 m/s
Protection 500	EN1522 FB4+	4.2 mm	7.62 x 39 mm AK-47 M43	8.0 g	10 m	720 +/- 10 m/s
Protection 500	EN1522 FB5	6.0 mm	5.56 x 45 mm SS109 (M855)	4.0 g	10 m	950 +/- 10 m/s
Protection 500	EN1522 FB6	6.0 mm	7.62 x 51 mm M80 Nato Ball	9.5 g	10 m	830 +/- 10 m/s
Protection 500	EN1522 FB7	14.0 mm	7.62 x 51 mm P80 Nato AP	9.5 g	10 m	820 +/- 10 m/s
Protection 500	Stanag 4569 Level 1	6.0 mm	7.62 x 51 mm M80 Nato Ball	9.5 g	30 m	833 +/- 20 m/s
Protection 500	Stanag 4569 Level 1	9.0 mm	5.56 x 45 mm M193	3.5 g	30 m	937 +/- 20 m/s
Protection 500	Stanag 4569 Level 2	12.0 mm	7.62 x 39 mm AK-47 API BZ	7.7 g	30 m	695 +/- 20 m/s
Protection 500	Stanag 4569 Level 3	16.0 mm	7.62 x 54R mm B32 API	8.4 g	30 m	930 +/- 20 m/s
Protection 500	Stanag 4569 Level 3	24.0 mm	7.62 x 51 mm AP (WC)	10.3 g	30 m	854 +/- 20 m/s
Protection 600	Stanag 4569 Level 2	8.0 mm	7.62 x 39 mm AK-47 API BZ	7.7 g	30 m	695 +/- 20 m/s
Protection 600	VPAM PM 2007 PM9	10.0 mm	7.62 x 51 mm P80 Nato AP	9.7 g	10 m	820 +/- 10 m/s
Protection 600	Stanag 4569 Level 3	20.0 mm	7.62 x 51 mm AP (WC)	8.4 g	30 m	930 +/- 20 m/s

