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Security Essen 2024:

From the shooting-resistant hoodie to the four-legged robot

Young companies show products made in Germany at the Security Essen

They are new, they are inventive - and their products make life safer. Among the 500 or so exhibitors at Security Essen are several young companies that present innovative safety technology from Germany. "Young Innovators" is the motto of the joint stand in hall 5 of the leading trade fair for security, which will be held from 17 until 20 September at the Messe Essen. The range ranges from anti-shot and anti-stab clothing to four-legged walking robots to durable furniture for detention rooms, hospitals and psychiatric hospitals. The Federal Ministry for Economic Affairs and Climate Protection is promoting the participation of industry newcomers at trade fairs.

The company Eibenzholz from Unterhaching, a manufacturer of cut-, stich- and bullet-resistant clothing, is one of them. The highlight of shirts, sweaters and vests: they look like chic everyday fashion and are also comfortable to wear. At the same time, they protect against serious injuries, which is made possible by a particularly light and stable synthetic fibre. With the manufacturer Armadillo Tex, the trade audience expects another exhibitor of protective clothing. The company's anti-stiching vests are exceptionally flexible, lightweight and breathable thanks to a special material.

Commissioner Rex gets competition

The products of Security Robotics are also an eye-catcher at the Security Essen. The software specialist offers several walking robots that anatomically resemble a dog and also roughly match its size. The artificial four-legged friends are used for example in patrols in guard, measurements at facilities and access control. They have already demonstrated their skills on various oil platforms and in the radioactive hazard zone at Chernobyl.



MESSE ESSEN GmbH

Messehaus Ost, Messeplatz
Postfach 10 01 65
45001 Essen | Germany

Presse-Kontakt | Press Contact
Kirsten Hemmerde
Fon + 49.(0)201. 72 44-432
kirsten.hemmerde@messe-essen.de

Presse-Fotoservice |
Press Photo Service
Ayben Dürümoglu
Fon + 49.(0)201. 72 44-780
ayben.dueruemoglu@messe-essen.de

www.messe-essen.de
www.security-essen.de

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The manufacturer Pineapple is especially aimed at the operators of prisons, hospitals and psychiatric institutions with its furniture designed for demanding environments. The portfolio ranges from seating furniture and tables to cabinets and beds. The functions of the robust furniture series include additional reinforcement, weighting and anti-luminescence properties. This reduces the risk of suicide, self-harm and injury to others, minimises hiding places for contraband and contributes to de-escalation in stressful situations.

Robots that detect broken fences

The young and innovative companies at Security Essen are also causing a stir in terms of software. With berrybeat, for example, a start-up is developing software packages for welcome management in companies. The applications help with onboarding and offboarding of employees, access management of visitors and room bookings. Energy Robotics, on the other hand, develops AI software for autonomous inspections with robots that detect gas leaks, people and defects in fences.

123456789 – this was last year's most popular password for Germans according to the Hasso-Plattner-Institut. It's certainly not the case, so IT experts advise using password managers with a secure master password. At Security Essen, visitors can use heylogin to experience a password manager with end-to-end hardware encryption that even works without a master password. With just one click, users can log in anywhere without having to type passwords themselves.

For a secure home

Protection against digital threats plays an important role at Security Essen. But even in the non-digital space dangers still lurk. The exhibitor Safe2Home, who completes the roam of the young innovators at Security Essen with his innovative and self-developed wireless alarm systems, provides a remedy.