

SMOXH Builds Production Around In-House Heat Treatment and Plans Further Plant Investment

Konya plant treats its own tool bodies and adds automation and R&D investment; the 2026 programme goes on show at AMB Stuttgart, Hall 1, Stand 1J86.

KONYA, TURKEY, September 14, 2026

/EINPresswire.com/ -- A cutting tool body leaves the lathe with the right dimensions. What happens next decides whether it keeps them. [SMOXH Cutting Tools](#), a Konya-based manufacturer of indexable tools and holders, commissioned an atmosphere-controlled heat treatment facility at its plant in December 2024, taking in-house the process that sets hardness and dimensional stability in steel tool bodies. The company has paired that change with a second one at the other end of the chain: [SmoxxShop](#), its online sales channel, opened in October 2025 and now serves customers in Türkiye and abroad. Europe and Other Countries together account for more than 60 percent of export sales, according to the company.

Why Heat Treatment Decides How a Tool Body Behaves

Heat treatment is the controlled heating and cooling of steel to fix its hardness, toughness and internal stress. On a cutting tool it does one specific job: it determines whether the insert seat holds its geometry once clamping load and cutting force arrive.

The atmosphere matters as much as the temperature. Running the cycle in a regulated gas environment limits oxidation and decarburisation, the surface reactions that leave the outer layer of a component softer than the core. On a boring bar, that outer layer is exactly where the



SMOXH Cutting Tools exhibits at AMB Stuttgart, the International Exhibition for Metal Working, from 15 to 19 September 2026 in Hall 1, Stand 1J86 at Messe Stuttgart.

seat is machined. Get it wrong and the tool measures correctly but indexes badly.

Manufacturers who send the work out live with variation they did not set, and with a truck journey between two operations that ought to sit next to each other.

What Changes When the Steps Sit Together

Vertical integration describes a manufacturer carrying out successive production stages internally rather than distributing them among suppliers. At the Konya plant the chain runs from steel bar through machining, heat treatment and grinding to assembly and inspection.



SMOXH Cutting Tools official online store – browse and purchase high-quality cutting tools and machining accessories.

“

A body that leaves the plant with the same hardness and the same seat geometry every time is what makes the rest of the specification mean anything”

Mustafa Simsek, Founder and CEO, SMOXH Cutting Tools

For the customer this shows up in two unglamorous ways. Seat geometry and hardness stay within the same parameters from one production run to the next, which is what lets a replacement body behave like the one it replaced. And a special no longer waits in a subcontractor's queue, which matters on application-specific tooling, where SMOXH engineers tools around a particular operation rather than pulling them from a catalogue.

"Control over heat treatment is control over the tool. A body that leaves the plant with the same hardness and the same seat geometry every time is what makes the rest of

the specification mean anything," said Mustafa Şimşek, Founder and CEO, SMOXH Cutting Tools.

Two Routes to the Customer

Standard tooling and custom tooling do not travel the same way, and SMOXH has stopped pretending they should.

Catalogue items go through SmoxhShop. Listings carry dimensional data and downloadable

datasheets, the interface runs in several languages, and a buyer in an export market can order without opening a quotation cycle. Custom work stays with the engineering team, where the tool is drawn for the operation. Moving routine reordering online is meant to free that team for the part of the job a catalogue cannot cover.

Where the Next Investment Goes

Heat treatment was one step in a longer programme. SMOXH is directing further investment at the plant in four areas: additional machining capacity, expanded production space, robotic handling and automation on production lines, and a dedicated R&D function for tool geometry and application development.

Automation is the least visible of these and, in tooling, often the most consequential. Robotic loading removes a source of variation that no inspection stage can correct afterwards, since a body positioned slightly differently between operations carries that difference into the finished seat. Consistency of this kind is what allows a manufacturer to hold tolerances across long production runs rather than within a single batch.

The R&D commitment points at the same conclusion from a different direction. Tool geometry, substrate selection and application testing decide how a tool performs in a specific material at specific parameters, and those are questions a catalogue cannot answer from a distance. Adding engineering capacity is what lets a supplier work on the operation rather than only on the order.

About SMOXH Cutting Tools

SMOXH Cutting Tools is a 2004-founded, Konya-based manufacturer of indexable cutting tools, tool holders and clamping equipment for CNC turning and milling machines. The company operates a 15,000 square metre production facility with 120 personnel including engineers, machines and heat-treats tool bodies on site, and lists more than 7,200 items in its 2026 general product catalogue across turning, milling, drilling, grooving, threading and boring. SMOXH manufactures in Türkiye, exports to more than 40 countries, and engineers custom tooling



10 DIFFERENT
CARTRIDGES
6 DIFFERENT
OPERATIONS



1	INTERNAL TURNING	3	CHAMFERING	5	EXTERNAL TURNING
2	PROFILE MACHINING	4	RADIUS MACHINING	6	PRECISION MACHINING





The ECOBODY modular internal turning system uses ten interchangeable E-Fit cartridges covering internal turning, profile machining, chamfering, radius machining, external turning and precision machining.

alongside its standard programme. For more information, visit www.smoxx.com.tr or browse the SmoxhShop online store at www.smoxxshop.com.

Meeting Point: [AMB Stuttgart](#)

SMOXH will present its 2026 product programme at AMB Stuttgart from 15 to 19 September 2026, in Hall 1, Stand 1J86 at Messe Stuttgart. The exhibition brings together CNC machining, metalworking and precision engineering companies from across Europe, and gives the company's technical team direct contact with the production environments its tooling is built for. Visitors can review the turning, milling, drilling, grooving, threading and boring ranges at the stand and discuss application-specific requirements with SMOXH engineers and owner Mustafa Şimşek.

Yusuf Çelikaş

Mustafa Şimşek MAKİNE TAK.SAN. VE TİC. LTD.ŞTİ

+90 554 952 07 46

sales1@smoxx.com.tr

Visit us on social media:

[LinkedIn](#)

[Instagram](#)

[Facebook](#)

[YouTube](#)

The brochure for the ECOBODY Modular Internal Turning System features a green and white design. At the top, the 'ECOBODY' logo is prominently displayed in green, with 'MODULAR INTERNAL TURNING SYSTEM' written below it. To the right is a circular logo for 'INTERNET E-FIT CARTRIDGES'. The main section is titled '10 DIFFERENT CARTRIDGES' and shows a grid of ten different E-Fit cartridge models, each with a small image and its name: E-FIT POLNR/L-22, E-FIT SR/L-36, E-FIT SCLCR/L-36, E-FIT PWLNR/L-08, E-FIT SDUCR/L-11, E-FIT PCUNR/L-36, E-FIT SIR/L-22, E-FIT SYUBR/L-36, E-FIT SDQCR/L-11, and E-FIT TDUNR/L-36. Below this, it lists '3 DIFFERENT DIAMETERS' (Ø40, Ø50, Ø60) and '7 DIFFERENT LENGTHS' (L1: 150mm, L2: 200mm, L3: 250mm, L4: 300mm, L5: 350mm, L6: 400mm, L7: 450mm). A small inset image shows a tool in use on a lathe, with a quote: 'With ECOBODY, tool changes are faster, your costs are reduced, and your productivity increases!'. The SMOXH logo and 'CUTTING TOOLS' are at the bottom right, and 'SMOXH.COM.TR' is at the bottom left.

The ECOBODY range comprises ten E-Fit cartridge types in three body diameters of 40, 50 and 60 mm, with bar lengths from 150 to 550 mm.



SMOXH Cutting Tools product range – high-performance cutting tools and industrial machining systems.

This press release can be viewed online at: <https://www.einpresswire.com/article/942001662>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire,

Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2026 Newsmatics Inc. All Right Reserved.