

FOR IMMEDIATE RELEASE

SHIMA SEIKI to Exhibit at Techtextil 2022

Leading textile technology solutions provider SHIMA SEIKI MFG., LTD. of Wakayama, Japan, along with its Italian subsidiary SHIMA SEIKI ITALIA S.p.A., will be participating in the Techtextil exhibition in Frankfurt, Germany this month.

On display will be SHIMA SEIKI's latest innovation in flat knitting technology as applied to the field of technical textiles—a prototype weft knitting machine capable of multi-axial yarn insertion. Fabrics produced on this machine use inlay technique for the production of hybrid textiles that combine the stretch characteristics of knitted fabrics with the stability of woven textiles, suited to various technical applications. To this, warp yarn is inserted to further expand its capability to produce 3D-shaped carbon fiber and composite preforms directly on the machine. This is made possible by taking advantage of the fact that flat knitting as a textile production method is capable of producing end products that are shaped-to-form and with added thickness. Compared to current methods of preform production, savings in post-processing time, material, labor and associated costs are immense, realizing efficient and sustainable production. SHIMA SEIKI's own yarn unwinding technology is also used for optimum yarn feed and tension for use with technical yarns that are otherwise difficult to knit. Industrial textile samples knit on the multi-axial machine will also be available for examination on-site.

SHIMA SEIKI's SDS®-ONE APEX4 3D design system will be available for demonstrations as well. Of particular interest should be its ultra-realistic simulation capability that realizes Virtual Sampling. When countless variations must be evaluated before arriving at a final design, virtual product samples can be used to streamline the decision-making process by minimizing the enormous amount of time, cost and material normally associated with producing actual samples for each variation. When approved, the same data can be converted to machine data for immediate knitting, significantly reducing lead times.

Exhibition Details

Exhibition: Techtextil 2022
Date: Tuesday, 21st - Friday, 24th June 2022
Hours: 9:00AM - 6:00PM (Final day: - 5:00PM)
Location: Messe Frankfurt
Ludwig-Erhard-Anlage 1,
60327 Frankfurt am Main, Germany
Tel: +49 69 75 75-0
Organizer: Messe Frankfurt Exhibition GmbH
Booth No.: Hall 12.0, Stand D61 (SHIMA SEIKI ITALIA S.p.A. booth)

Exhibited Technology

Prototype Multi-axial computerized flat knitting machine
SDS®-ONE APEX4 3D design system

For more information please contact:

SHIMA SEIKI ITALIA S.p.A.
Tel: +39 02 216621
E-mail: info@shimaseiki.eu

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About SHIMA SEIKI

Company Name: SHIMA SEIKI MFG., LTD.

Established: 1962

President: Mitsuhiro Shima

No. of Employees: 1,414

Headquarters: Address: 85 Sakata Wakayama 641-8511 JAPAN
Telephone: +81-(0)73-474-8210 (Joint Sales Division)
Facsimile: +81-(0)73-474-8270 (Joint Sales Division)
URL: <http://www.shimaseiki.com>

Core Business: Development, manufacture, sales and service of WHOLEGARMENT[®] knitting machines, computerized flat knitting machines, glove and sock knitting machines, computer graphic apparel design systems, apparel CAD systems, computerized fabric cutting machines (CAM), textile printing machines and other related peripherals.

Company Profile: SHIMA SEIKI MFG., LTD. of Wakayama, Japan is a leading manufacturer in the computerized flatbed knitting machine industry. With complete systems integration from planning, production to sales promotion and retail sales, SHIMA SEIKI has been dedicating its products and services to the knitting industry worldwide through the latest in computerized knitting technology.

SHIMA SEIKI is also the pioneer in complete garment manufacturing technology—called WHOLEGARMENT[®]—wherein an entire knitted garment is produced on the knitting machine without the need for linking or sewing afterward. Since its commercial introduction in 1995, SHIMA SEIKI has been the undisputed leader in WHOLEGARMENT[®] knitting technology with 35 years of on-going research and 25 years of proprietary field experience and know-how, not to mention over 2,500 related patents and patents pending worldwide.

Meanwhile SHIMA SEIKI's SDS[®]-ONE APEX series 3D design system and APEXFiz[™] design software feature ultra-realistic knit simulation for creating virtual samples. Virtual samples minimize time, cost and material associated with the sample-making phase. Virtual samples can also be used to gauge consumer response to items before going to market, effectively realizing production based on demand forecasting. Inventory can therefore be optimized to minimize leftover stock, realizing smart, speedy and sustainable production.

Press Contact: (Mr.) Masaki Karasuno, Media Relations
karasuno@shimaseiki.co.jp

Press Information: Stay current with the latest SHIMA SEIKI press information at:
<http://www.shimaseiki.com/news/press.html>