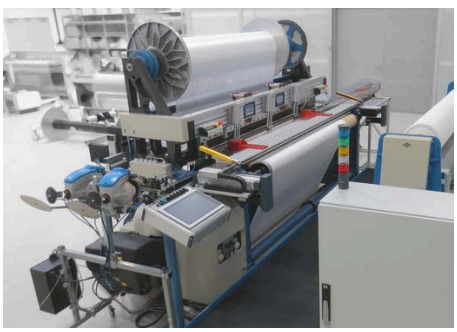
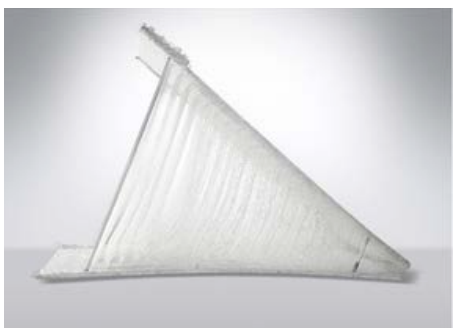
VUTS

DIFA

air-jet weaving machine for **DROPSTITCH**







DIFA

Air-jet weaving machine
for **high-performance**
distance fabrics

TRUE VARIABLE DISTANCE TECHNOLOGY

Continuously adjustable fabric distance / height during weaving.

PATTERN DESIGNER SOFTWARE

It allows for the design of structures tailored to the specific requirements of a given space. New product design and functionalities.

One machine. Multiple products.

- Wide yarn range: 150 - 1500 den.
- Processing of: PES, PP, PAD yarns and others.
- Distance range:
  6–10 cm - structurally dependent
  10–50 cm - structurally independent.

Production input

- Automatic discontinuous process of distance fabric production.
- Weaving mode: operational speed 600 rpm.
- Distance mode: approx. 10 s.

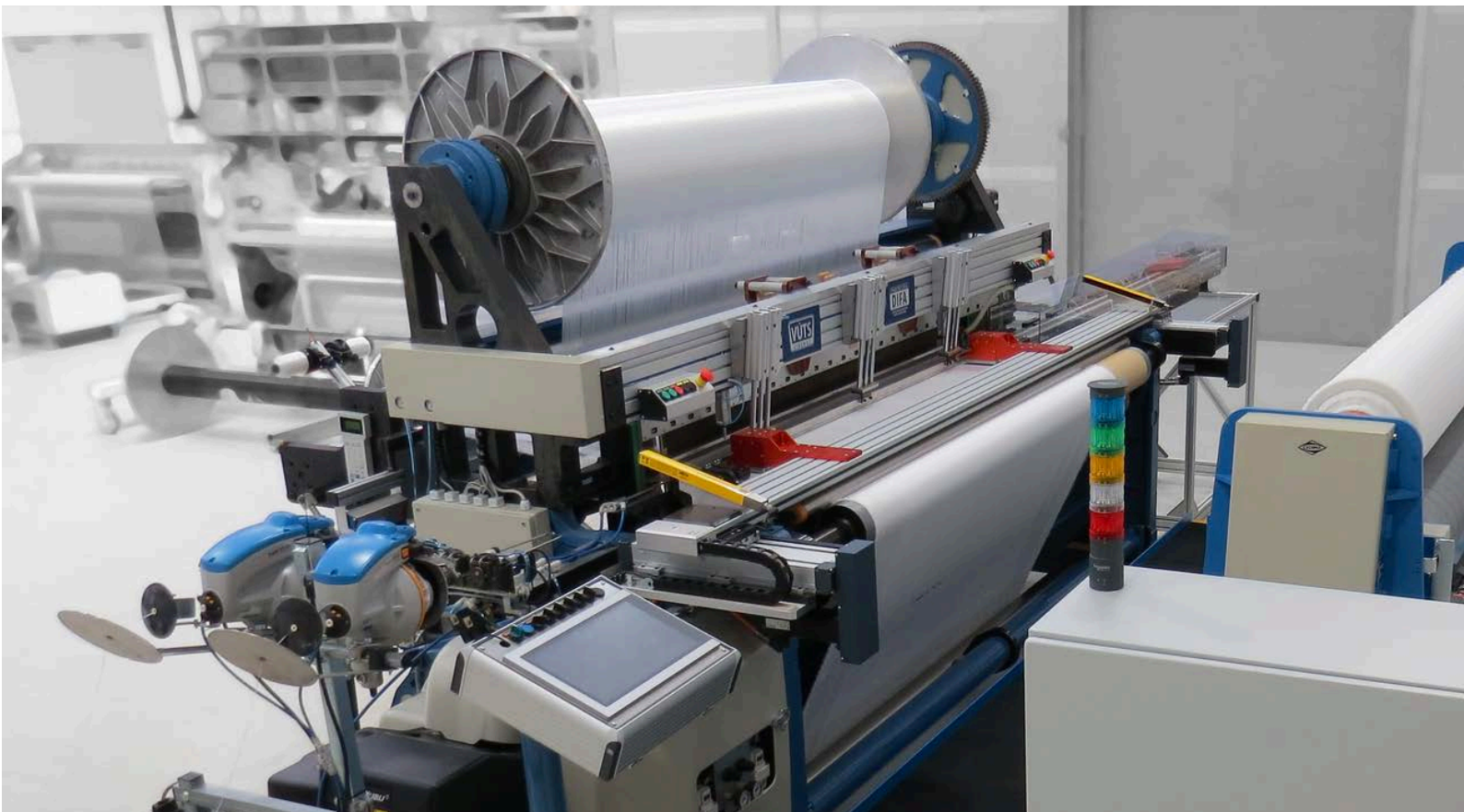
Engineered for maximum flexibility.
Built for industrial performance.



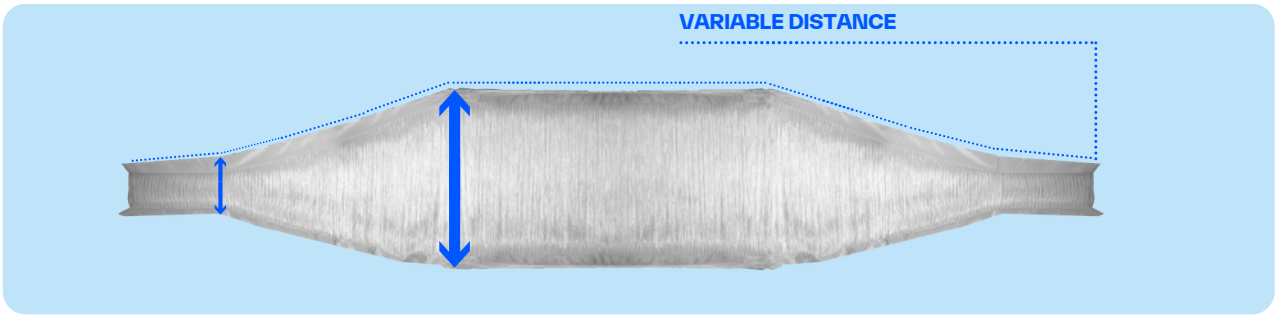
Why DIFA?

Because standard solutions are not enough.

- Pattern designer software - freedom to develop new products
- Flexibillity to adapt production
- Maximum production flexibility
- Intelligent machine control



DROPSTITCH by DIFA



PILE YARN DENSITY

- Low-high density (up to 120 000 ends/m2)
- Based on theoretical simulation - design of customized structure

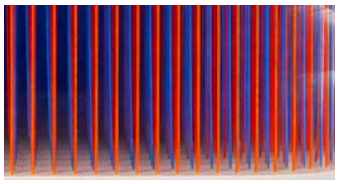
KEY APPLICATIONS

- Inflatable lightweight structures
- Industrial and functional textiles
- Filtration and separation systems
- Others

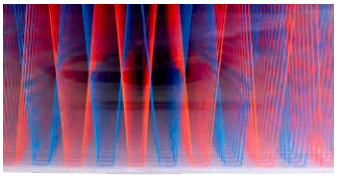
VARIABLE STRUCTURE



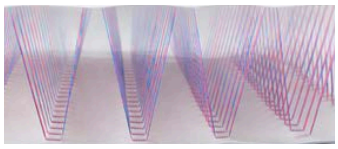











VARIABLE SHAPES




VÚTS is a research and development company with a tradition dating back to 1951, combining mechanical engineering with advanced textile technologies. We design and develop cutting-edge solutions for the production of technical textiles – from initial concepts and simulations through machine design to the final product. We have long specialized in weaving technologies, including air-jet systems, as well as in the development of unique equipment for the production of 3D and distance structures. VÚTS represents a reliable partner for the development of new textile applications, with a strong focus on functionality, flexibility, and industrial applicability.



www.vuts.cz

Made in
Czech Republic