



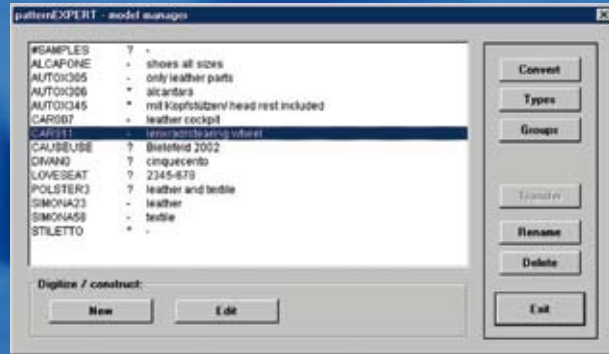
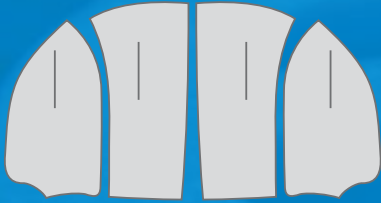
**Multi-functional cutting.
High speed and constant precision.**

Expert Systemtechnik GmbH

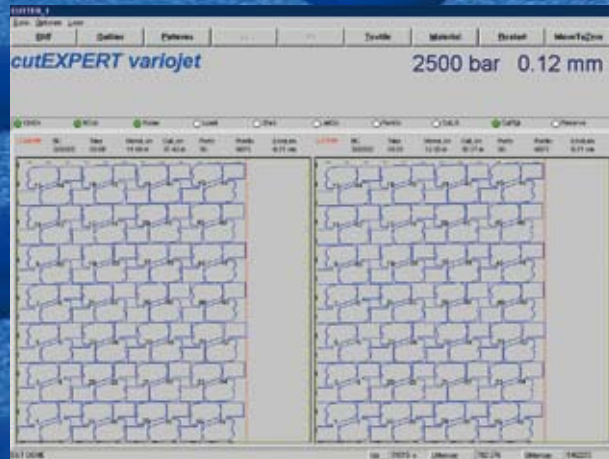
Industrial materials

patternEXPERT:

- Optimize the data capture of your patterns
- Benefit from the clearly defined model manager
- Be flexible with any modification of your patterns
- Interfacing to other CAD systems



Increase yield of material by software module nestEXPERT varionest, optional automatic or interactive nesting modes.



Material data base

Description	V [m²/m³]	A [m²/m³]	P [bar]	Nozzle [mm]
CR 0.3 mm EA 5lagg	15.000	1.000	2500	0.12
Cr 0.3mm dia 10 lagg	15.000	1.000	2500	0.25
Cr 1.1mm walf 1lagg	15.000	1.000	2500	0.12
Cr 1mm dia 2lagg	10.000	1.000	3600	0.12
CR 1mm gerade 4lagg	13.000	1.000	3000	0.25
CR diagonel 0.7	30.000	3.500	1800	0.10
Cr 0.7mm 3lagg	15.000	1.000	3200	0.12
CR_FI Noesax (Tungst)	10.000	1.000	3000	0.12
CSM 700 0.5mm	50.000	3.500	2000	0.15
CSM 700 1.0mm	25.000	3.500	2500	0.15
Mivogermole 5lagg	15.000	1.000	2500	0.12
MVQ 1mm dia 10lagg roh	4.000	0.665	3200	0.30
MVQ 1mm dia 5lagg roh	4.000	0.665	2500	0.30
MVQ 1mm dia 3lagg roh	6.000	1.000	3700	0.12
MVQ 1mm dia 4lagg roh	4.000	1.000	3700	0.12
MVQ pink vulkanisert 1.2mm	10.000	1.000	3600	0.12
MVQ-HT roh dia	20.000	3.500	1900	0.20
HBR 1.1/C dia 1lagg	15.000	1.000	2500	0.12
MVQ pink vulkanisert 1.2mm	10.000	1.000	3600	0.12
MVQ-HT roh dia	20.000	3.500	1900	0.20
HBR 1.1/C dia 1lagg	15.000	1.000	2500	0.12
HBR 1.5mm 10lagg	16.000	1.000	2500	0.12
HBR/CR 1.5mm 10lagg roh	2.000	0.665	3500	0.30
HBR/CR 1.5mm 10lagg roh	4.000	0.665	3600	0.30

Insert Edit Delete Save Cancel OK

dataEXPERT cut:

- Save cutting parameter of each material you cut
- Minimise operating error
- Save operating time

Achieve maximum results by efficient CAM off-line cutting system.

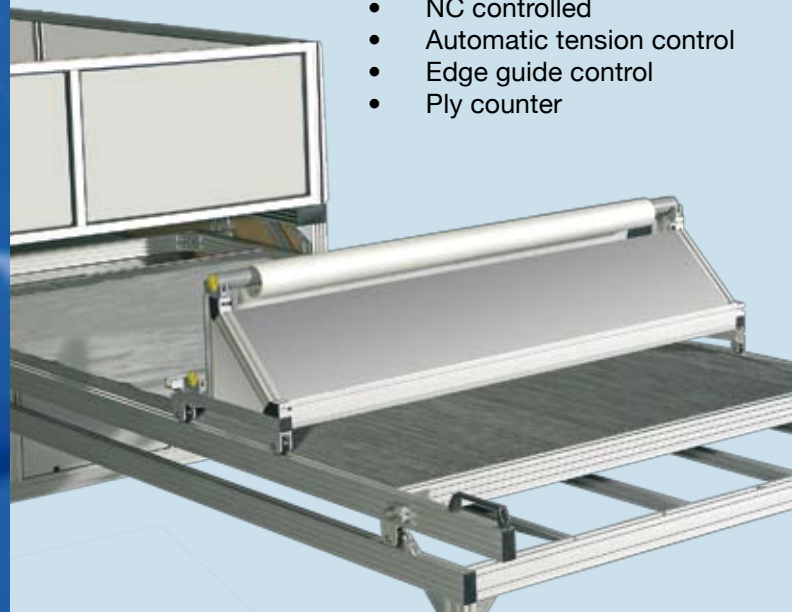
cutEXPERT variojet offers multiple features:

- Automated cutting powered by waterjet technology with constant accuracy and high velocity
- Cutting of single or multi-layer
- Increase of production output
- High flexibility
- Adjustment to changing output-requirements
- With customized spreading device
- Multiple cutting heads available



Spreading Device:

- NC controlled
- Automatic tension control
- Edge guide control
- Ply counter



cutEXPERT minijet:

- Designed for prototyping
- Useful for small material runs
- Laboratory testing jobs



One tool for future materials.

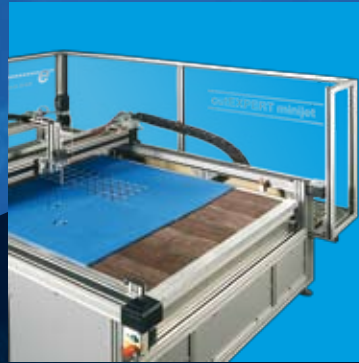
With the waterjet nozzle of cutEXPERT variojet and cutEXPERT minijet you cut any contour no matter how complicate it is out of almost any materials.

The material feeding systems of cutEXPERT is flexible: material rolls of max. 180 cm width or plates.



Fields of application:

- Prepregs
- Laminates
- Polymers
- Foams
- Rubber
- Composites
- Leather
- Foils
- Plastics
- Cardboard
- Cork
- Wood
- Lining
- Acoustic insulation
- Thermo insulation
- Industrial fabrics



cutEXPERT minijet




cutEXPERT variojet

Technical data:

- Repeatability: $\pm 0.2 \text{ mm}$ ($\pm 0.0008''$)
- Velocity: $1-1000 \text{ mm/sec}^2$ ($0.003 - 3.3 \text{ ft/sec}^2$)
- Acceleration: $\text{max. } 10 \text{ m/sec}^2$ (32.8 ft/sec^2)
- Software: MS Windows based
- Working width: cutEXPERT minijet: $130 \times 170 \text{ cm}$ ($51'' \times 67''$)
cutEXPERT variojet: $180 \times 300 \text{ cm}$ ($71'' \times 118''$)
- Main supply: Power supply, compressed air, water



Your ideas. Our solutions.
Your profit.



Expert Systemtechnik GmbH
Broeninghauser Strasse 35 E, DE-33729 Bielefeld / Germany
Phone: + 49 521 95967-0, Fax: +49 521 95967-10
e-Mail: info@expertsystemtechnik.de
www.expertsystemtechnik.de