

SMART-X[®] and laser technology

























The contactless process

The processing of materials by using laser technology gains more and more acceptance. If you have already been concerned with this technology or you have already cut with laser light, you are familiar with the following advantages of this modern cutting method.

- ▶ Contactless process
- ▶ No force effect on the material, consequently no warpage
- ▶ No dust and strands
- ▶ No clamping of the material necessary
- ▶ No tool wear
- ▶ Less waste
- ▶ Also processable at uneven forms by preserving constant quality
- ▶ Cutting of extremely fine contours and nearly radius-free inner contours

All these advantages could be used by fabricators of **SMART-X** as the company „eurolaser“, located in Lüneburg, tested the lightweight board **SMART-X** for laser cutting ability for the company „3A Composite“ and certified it as „excellently suitable“.

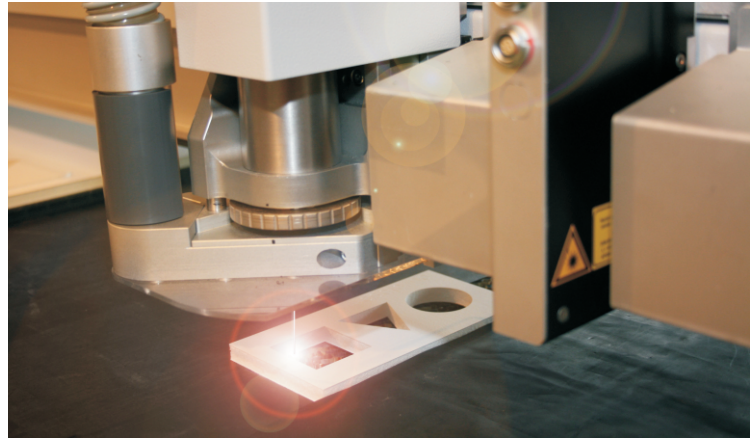
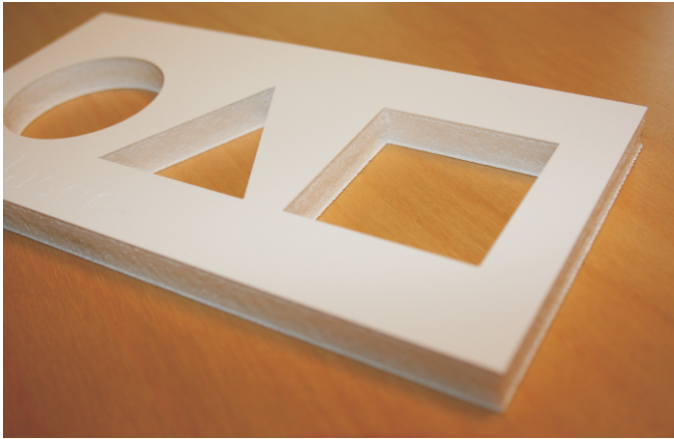
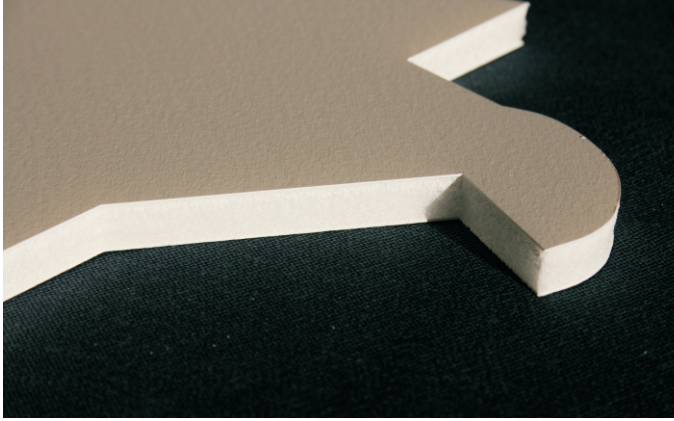
Please compare! Which are the advantages of laser technology compared to the classical knife or punch application?

PROCESSING BY COMPARISON			
	LASER CUTTING	KNIFE CUTTING	PUNCHING
Quality of cutting edge	 good	 good	 pinching
Cutting quality during timing	 constant	 decreasing	 decreasing
Cutting precision	 good	 good	 medium
Fine details / small drills	 yes	 partly	 no
Flexibility / Individuality	 high	 partly	 low
Tool storage costs	 no tool storage	 low storage costs	 medium storage costs
Speed	 high speed	 medium speed	 very high speed
Tool wear	 no wear	 easy change, if worn	 expensive change, if worn

COMPARISON OF THE WORK PROCESS			
Laser:	Design ▶	Process ▶	Product
Knife:	Design ▶	Clamping the knife ▶	Process ▶ Separating residual material from the product ▶ Product
Punch:	Design ▶	Preparing punch form ▶ Clamping ▶	Process ▶ Separating residual material from the product ▶ Product

The quality of laser cutting

Images of the cutting edges of **SMART-X**



You can receive the detailed report for this material test, on demand, under:
www.eurolaser.com/contact



Laser cutting ability: **excellently suitable**

Please find here a video of the laser cutting process: www.eurolaser.tv/1214V6092P.wmv

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