



Applications

Automotive

Labels Security Industrial

Textile Sports equipment

Ceramic Membrane switches

Electronics Decals Glass

Graphic Floor Furniture

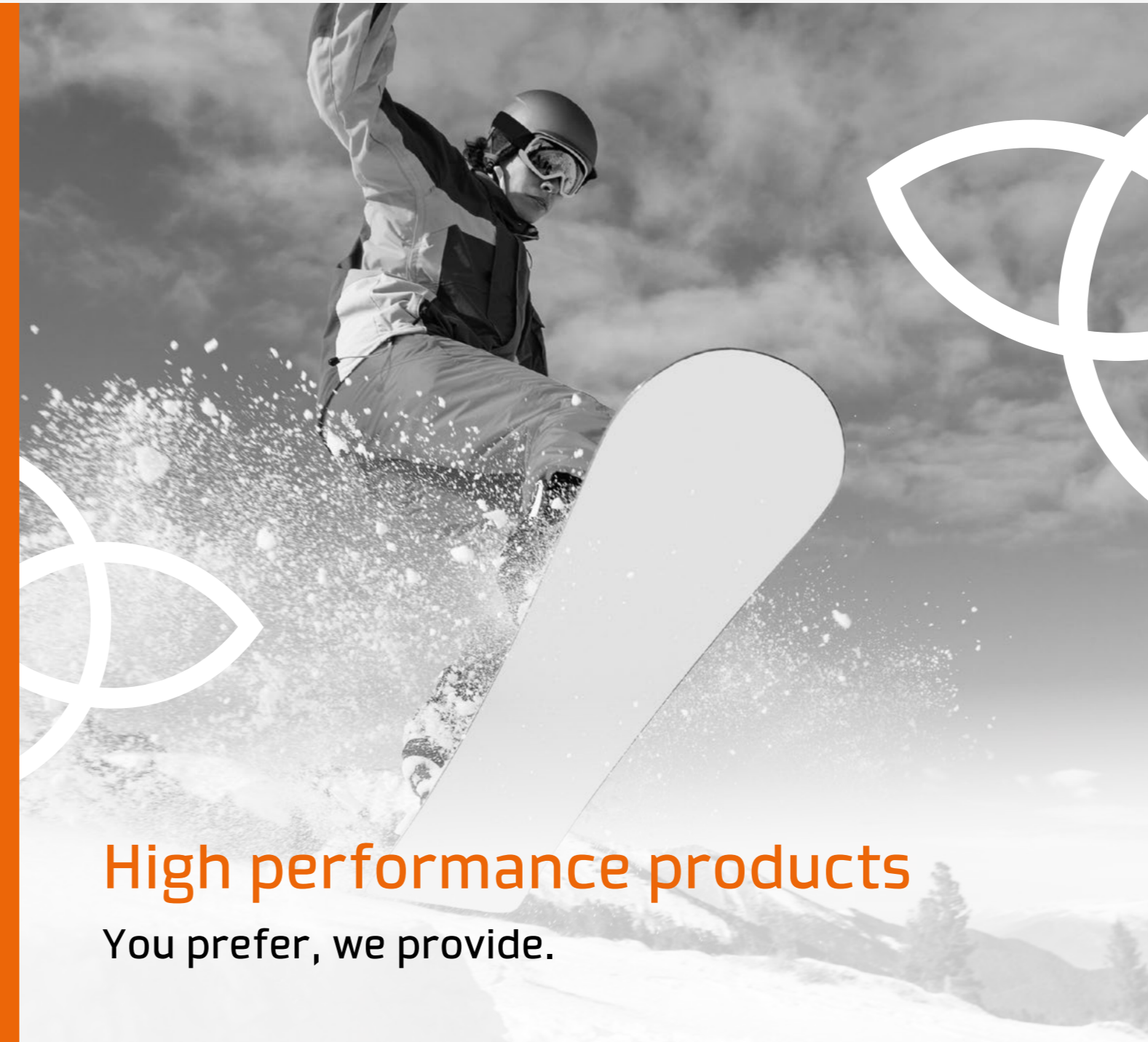
Chemical milling

OUR COMPANY NETWORK



www.c-s-t.de · www.a-k-k.de · www.kesper-druckwalzen.de

AKK GmbH
Königsberger Straße 117
47809 Krefeld · Germany
Tel. +49 2151 159 227 0
Fax +49 2151 520 329
E-Mail office@a-k-k.de



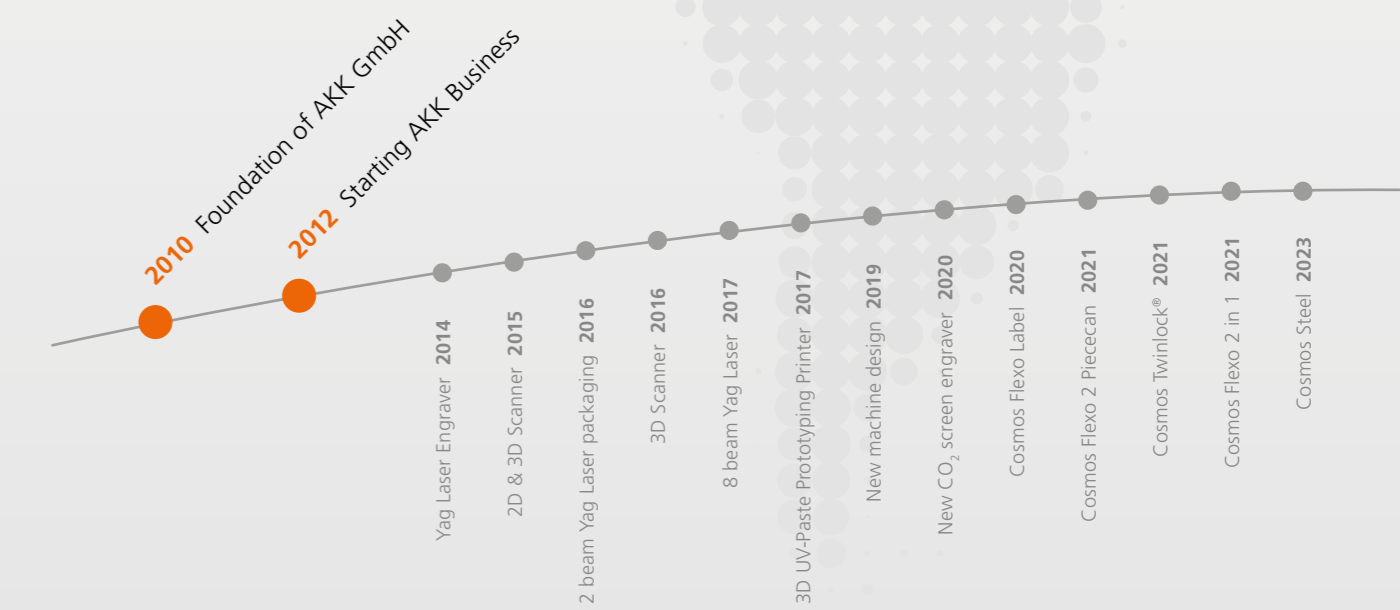
High performance products

You prefer, we provide.

About

AKK GmbH was founded in 2010. We joined long term laser engraving experience by a consolidation of the team's knowledge of CST GmbH and Kesper Druckwalzen GmbH. Like our philosophy "you prefer, we provide" we find together with our customer the right way of investment. The AKK product portfolio covers any kind of solution to engrave or produce embossing cylinders, plates or molds. Different ways of engraving such as direct laser engraving, etch resist paste, or transfer wax process are provided for each customized application. Our software

team is prepared to customize the software to work flow adjustments. Our newest product is the Fiber Engraver for Flexo special designed for the 2 piececan and packaging business. Engraving resolutions up to 5,080 dpi with 1-2 beams give our customers new possibilities to engrave flexo plates, sleeves and cylinders with up to 200 Lpi. As well a CO₂ Laser for Flexo and Screen Engraving is available.





Laser Line

FIBER LASER ENGRAVER

Our newest product is the Fiber Laser Engraver for Flexo. Engraving resolutions up to 5,080 dpi with 1 – 2 beams give our customers new possibilities to engrave flexo plates, sleeves or cylinder with up to 200 Lpi. As well a CO₂ laser for flexo and screen engraving is available.



COSMOS LASER FLEXP

Easy handling, compact design, fast and high-quality engravings: This is what distinguishes our Cosmos Laser Flexo. With either fiber laser or CO₂ technology with multi-beam technology, the machine is suitable for dry offset engraving or label printing as well as 3D engraving and packaging printing of EPDM plates, sleeves and cylinders. 100 L/cm can be realized with up to 5,080 dpi.

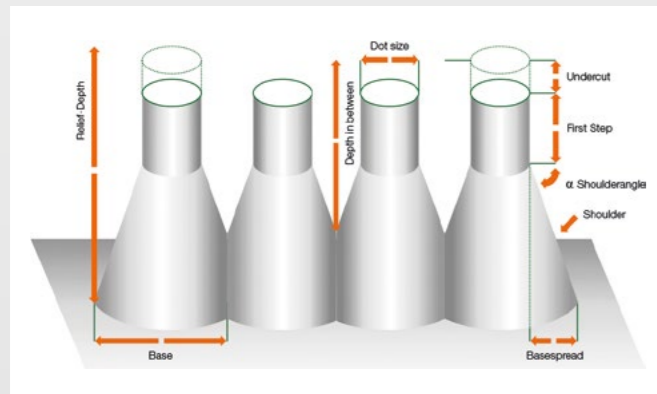
engraving machines, this is equipped with an acousto-optical modulator (AOM). With this technology, the finest engraving results can be achieved at high switching speeds.

Undercut, variable shoulder settings, the intelligent Easy Template software, a user-friendly interface and many other software tools simplify the handling of the machine. Individual requirements, such as the integration of the respective national language into the control panel, can also be implemented.

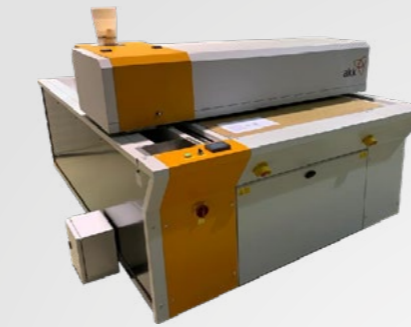
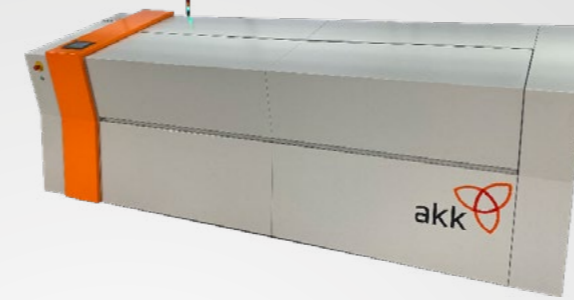
We have the right machine version for every customer: with up to 2000 watts, with single or double beam technology. For customers who want to engrave silicones or other non-fiber materials, we offer powerful Sealed CO₂ laser that produces fine engravings up to 2,540 dpi. Like all our laser

COSMOS LASER SCREEN

The Cosmos Laser Screen shows new possibilities of screen engraving. With a resolution of up to 2,540 dpi, our screen engraving is suitable for the highest demands and effective production. The highlight of our system: No external gas is required. This significantly reduces operating costs compared to conventional systems.



AKK Product Line



	COSMOS FLEXP	COSMOS FLEXP +	COSMOS SCREEN +	GRAVITY F	GRAVITY M	GRAVITY R
APPLICATION	Label/2 piece can	Packaging	Textile, wallpaper	Press plate, architecture glass	Injection molds, car, furniture	Embossing cylinders
MAX ENGRAVING LENGTH	800 mm	3,500 mm	3,500 mm	8,000 mm	2,200 mm	3,500 mm
MAX ENGRAVING WIDTH	1,250 mm	1,250 mm	1,080 mm	3,000 mm	1,250 mm	1,250 mm
AVAILABLE DPI RESOLUTION	2,540 / 5,080	2,540 / 5,080	2,540	1,440	1,100–1,440	1,100–1,440
PICOLITER	-	-	-	10	10/30	10/30
SURFACE SPEED	6 m/sec	6 m/sec	10 m/sec	8 m ² –10 m ²	3 m ² –5 m ²	0.4 m/sec
LASER POWER	up to 2,000 Watt	up to 2,000 Watt	500 Watt	-	-	-
HEAD SYSTEM	Fiber Laser CO ₂ Laser	Fiber Laser CO ₂ Laser	CO ₂ Laser	Konika Minolta	Konika Minolta/ Dimatix	Konika Minolta/ Dimatix
BEAMS/NOZZELS	1–2	1–2	1	1,024	1,024/256	1,024/256

Ink Technology

EMBOSSING MARKET

With the Gravity embossing engraver plates, cylinders and moulds can be produced quickly and precisely in multiple stages. For this purpose, a liquid, etch-resistant medium is heated with a high-resolution multi-jet spray head and partially jetted onto the surface (steel) at up to 12m² / hour.

Nothing to report! The pressure drop solidifies as soon as it hits the medium. Only a finely defined pressure point remains on the surface. The plate is then etched and cleaned before the next layer is applied. Design transfers of up to 1,440 dpi are no problem, nor are multiple etchings. Noses, faults or progressions?

