

Company network

Kesper Druckwalzen GmbH

CST GmbH

AKK GmbH

Since 1875 experience in flexo, sleeve and embossing engraving

Since 1989 experience in machine manufacturing of flat and rotary engraving units

Since 2010 experience in machine manufacturing of laser engraving systems and embossing solution for the car and floor industry.

Cosmos

The Cosmos Laser with Fiber multi-beam technology and 5.080dpi is suitable for highest demands and effective production. The Cosmos is suitable for dry offset engraving, label printing, 3D engraving, packaging printing of epdm plates, sleeves and cylinders. With up to **5.080dpi** 200l/inch are realized. By means of a vacuum, magnetic or Twinlock cylinder the epdm plate is fixed on the cylinder for engraving. Sleeves can also be clamped optionally. Easy handling, a compact design in combination with fast and high-quality engravings characterize this engraving machine. Optionally with 500 or up to 2.000 Watt we offer you with one or two beam technology.

Undercut, various shoulder settings, and many other software tools simplify the handling of the machine for the operator. Hardware and software are created in our factory in Krefeld, so that we can realize the individual customer needs, e.g. to map the respective national language in the control panel. Integration into the customer's work flow is also possible. Intelligent "template handling" with AKK software and a user-friendly interface characterize our machines.

2pieceCan, Label printing, packaging, commission engraver, we supplied to all this areas already engraving solutions.



Cosmos Flexo











Cosmos Flexo Technology



- Touch screen on the machine
- Control panel water temperature
- different language
- easy handling

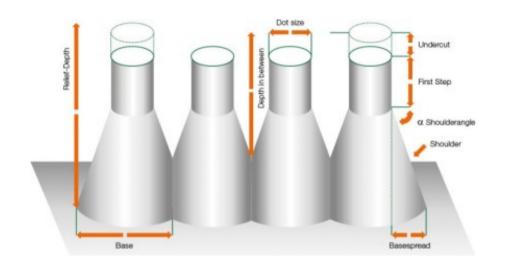


Fiber Laser:

- German supplier
- IPG Fiber Laser
- each 1.000 Watt power

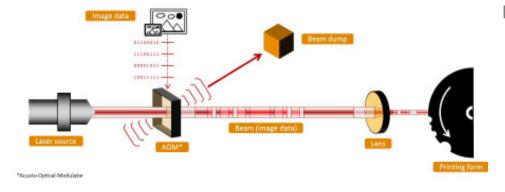


Cosmos Flexo undercut & shoulders



Undercut:

- the relief height is adjusted object-oriented in the print image (no crushed edges at fine points near surfaces)
- Dimensional forming of all printing elements
- Variable angles and depth
- Different "Undercut"



Laser function:

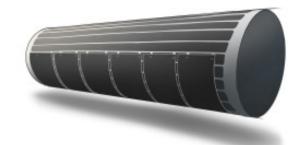
- Laser source: Co2 or Fiber laser
- AOM Modulator for swittching the beam to the lens (cylinder) or dump
- Lense focus the beam to 5-20μ (Fiber) and 50-70μm (Co2)
- 1-2 laser beams



Cosmos Flexo template software







Own AKK Software:

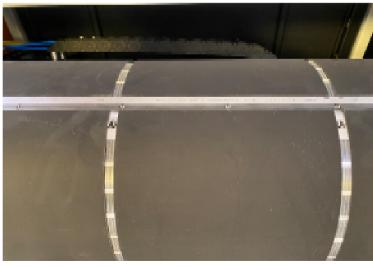
Plug and Paste

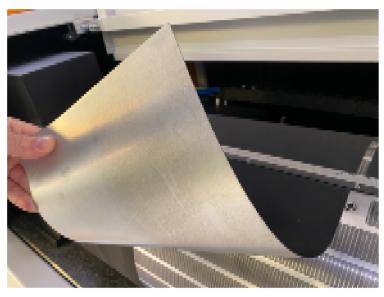
The system is supplied with a magnetic cylinder or vacuum cylinder. In combination with the positioning pins, not only the assembly in the engraving unit is optimised, but also later in the printing press, as the plates are engraved directly 100% in register.

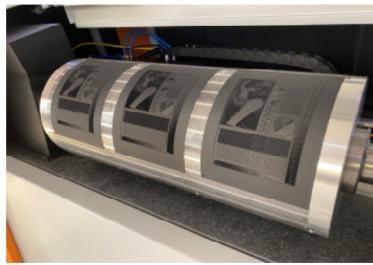


Cosmos Flexo plate mounting 2pieceCan









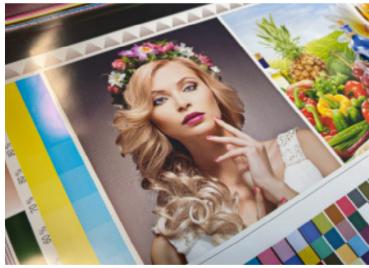


Cosmos Flexo prints











Cosmos Flexo compare process steps

TEPS	POLYMER TECHNOLOGY	EPDM TECHNOLOGY
1	DTP workstation	DTP workstation
2	Back side exposure	Plate mounting directly on printing adapter
3	Mask exposure	3D engraving
4	Main exposure	Washing with water, ready for printing machine
5	Developing and washing	
6	Dry plates	
7	UVA surface hardening	tive .
8	UVC surface hardening	More effective
9	Cutting plates	More effection and faster than the Polymer!
10	Register holes	the
11	Plate mounting on printing adapter	
12	Ready for printing machine	



Cosmos Flexo compare process steps



Material: Photopolymer

Types: Many types / colours

Developing: Chemicals

Running time: 100%

Storage: 2 months

Cleaning: High risk of damage

Waste: Toxic material

Energy 1m²: 40-60 kWh



EPDM

Few types and colours

No chemicals

300% - 500%

18 months

Low risk of damage



Normal waste

20 kWh



Flexo becomes green...

EPDM material less Co2 emmissions

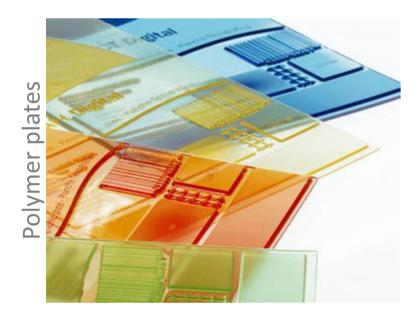
No toxic material = house waste

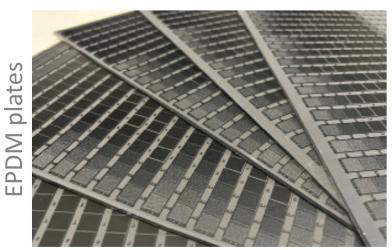
Fume extraction no toxic dust

No release of softeners

Lower energy consumtion













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