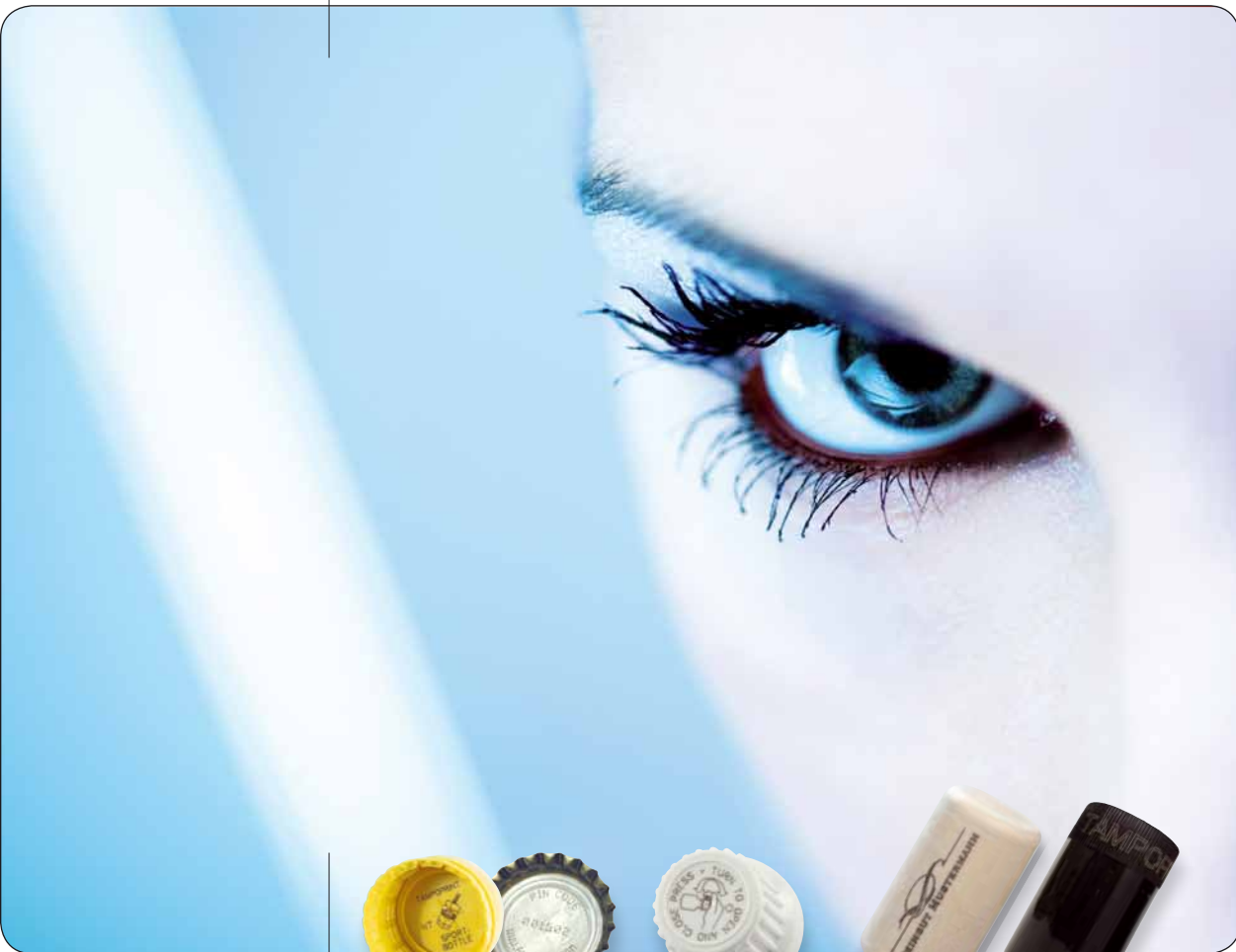


ALFALAS®

MOF SERIES



LASER SYSTEMS

LASER SYSTEMS PROMOTION & DESIGN

technologies for your future
made in germany

ORIGINAL

TAMPOPRINT®

Tampon printing machines
ALFALAS® Laser Systems
Automations

MOF-PROMO Plastic closures

■ Patented process for promotions in the beverage industry



Fig.: "MOF-Promo" with open cover Fig.: Marking area Fig.: Separation

Patented process for the precise and fast laser marking of the inside and outside surface of all kinds of closures for the beverage industry, e.g. laser marking for promotions. Tamper-proof production of large quantities. Optimal for the integration into existing production lines for bottle closures. Output capacity of up to 2.200 laser marked closures in the minute. Fully automatic feeding and discharge of the closures. Marking amount as well as the form of the closures are important factors for the throughput quantity. In individual cases it will be necessary to test the material properties. Thanks to its compact design the "MOF-Promo" can be integrated into existing production lines for all kinds of bottle closures.

Options:

- Feeding for bottle closures
- Monitoring function with camera system
- Manual z axis
- External cooling unit

Technical data:

Article number	41 09 00
Material	Plastic closures
Laser type	SK 96 / 98
Laser medium	Nd:YAG
Parts diameter	Ø mm up to 45
Marking area	Ø mm up to 30
Output capacity*	parts/min. up to 2.200
Connected voltage	3/N/PE, 400 V
Connected load	kW 7
Width	mm 2.010 (**2.600)
Height	mm 1.580
Depth	mm 835
Weight	approx. kg 800
Software	TP_mix
Laser class (acc. to DIN EN 60825.1)	1
External connection for suction unit	yes

**Incl. swivel arm

MOF-PROMO Crown corks

■ Fully automatic line for the marking of crown corks



Technical data:

Article number	41 09 00
Material	Crown corks
Laser type	SK 96 / 98
Laser medium	Nd:YAG
Parts diameter	Ø mm 32
Marking area	Ø mm up to 19
Output capacity*	parts/min. up to 1.800
Connected voltage	3/N/PE, 400 V
Connected load	kW 7
Width	mm 2.010 (**2.600)
Height	mm 2.765
Depth	mm 1.600
Weight	approx. kg 1.200
Software	TP_mix
Laser class (acc. to DIN EN 60825.1)	1
External connection for suction unit	yes

**Incl. swivel arm

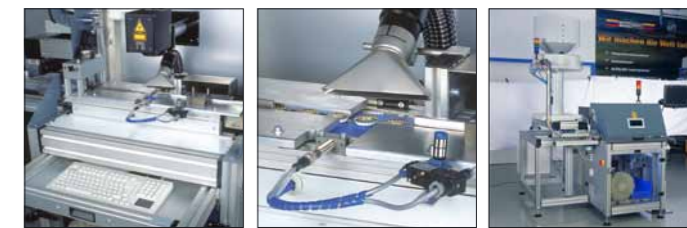


Fig.: Working area Fig.: Detail Working area Fig.: Total view

The fully automatic line for laser marking of crown corks is characterised by its compact design and the possibility for integration into existing production lines.

The Software TP_mix which was specifically developed for this application case allows the marking of all current variants. From simple logos to the marking with codes.

TP_mix Software, a development of TAMPOPRINT® AG. Allowing all processes incl. necessary safety (passwords, logging, etc.) .

Options:

- Feeding for crown corks
- External cooling unit

MOF-CIRCUM LongCaps

Fully automatic line for the marking / decorating of LongCaps



Fig.: Marking area Fig.: Detail Marking area Fig.: Separation

The fully automatic line for laser marking / decorating of rotary symmetrical parts (e.g. LongCaps). The transport takes place by means of a segment band with expanding mandrel. The distortion-free marking of the circumference without any stops takes place "On-The-Fly".

Technical data:	
Article number	41 99 99
Material	Plastic LongCaps
Laser type	SK 96 / 98
Laser medium	Nd:YAG
Parts diameter	Ø mm 34
Marking area	Ø mm 360°
Output capacity*	parts/h up to 20.000
Connected voltage	3/N/PE, 400 V
Connected load	kW 10
Feeding	yes
Width (incl. feeding)	mm 6.200
Height (incl. feeding)	mm 2.450
Depth (incl. feeding)	mm 1.800
Weight	approx. kg 1.800
Software	TP_mix
Laser class (acc. to DIN EN 60825.1)	1
External connection for suction unit	yes

Options:

- External cooling unit

MOF-CORK Synthetic corks

Laser automation for marking of synthetic wine corks



Technical data:	
Article number	41 09 10
Material	Synthetic wine corks
Laser type	SK 2x 96 / 98
Laser medium	Nd:YAG
Parts diameter	Ø mm 22
Marking area	Ø mm 30 x 18
Output capacity*	parts/h up to 10.000
Connected voltage	3/N/PE, 400 V
Connected load	kW 14
Feeding	yes
Width (incl. feeding)	mm 1.950 mm
Height (incl. feeding)	mm 1.800 mm
Depth (incl. feeding)	mm 1.000
Weight	approx. kg 850
Software	TP_mix
Laser class (acc. to DIN EN 60825.1)	1
External connection for suction unit	yes

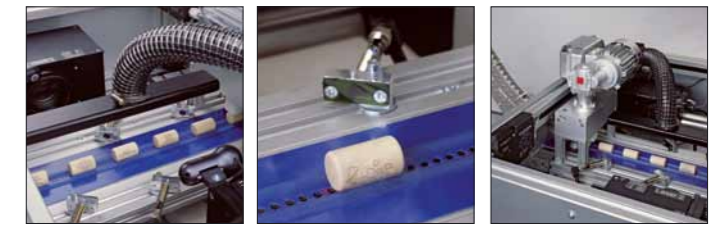


Fig.: Marking area Fig.: Detail Marking area Fig.: Separation

Patented process for marking / decorating of synthetic wine corks. With the process of TAMPOPRINT® AG it is possible to decorate synthetic wine corks with highest production speed and marking quality. Follow-up costs such as printing ink and printing clichés are eliminated. The synthetic wine corks are transported along the write head and during the passage they are directly and permanently laser marked with logos or texts.

Options:

- Camera monitoring system
- External cooling unit

EXTERNAL COOLING UNITS

REFERENCES



Fig.: External cooling unit
Art. No. 410053



Fig.: External cooling unit
Art. No. 41 00 53



Customers rely on TAMPOPRINT®

Technical data:

Article number	41 02 93	
Allowable variation voltage / frequency	400 V 3/N/PE/ 50 Hz	
Power input	max. kW	5,57
Nominal current	max. A	10,2
Cooling capacity	approx.	10,3
Operating limit values ambient temperature	°C	min. +15, max. +45
Operating limit values from water temperature	°C	min. +8, max. +25
Tank capacity	approx. litre	100
Noise level	max. dB(A)	58
Width	approx. mm	735
Height	approx. mm	1.500
Depth	approx. mm	926
Weight (empty)	approx. kg	190

Technical data:

Article number	41 00 53	
Allowable variation voltage / frequency	230 V 1/N/PE/ 50 Hz	
Power input	max. kW	3,68 (50 Hz) 3,74 (60 Hz)
Nominal current	max. A	18 (50 Hz) 14,1 (60 Hz)
Cooling capacity	approx.	7,4
Operating limit values ambient temperature	°C	min. +15, max. +45
Operating limit values from water temperature	°C	min. +8, max. +25
Tank capacity	approx. litre	40
Noise level	approx. dB(A)	52
Width	approx. mm	570
Height	approx. mm	1.146
Depth	approx. mm	740
Weight (empty)	approx. kg	140



Fig.: Assembly hall ALFALAS® laser systems

50th „MOF-Promo“ was produced in 2008



Fig.: Final assembly of the "MOF-Promo"

Headquarters



TAMPOPRINT® Special machine construction since 1978



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subsidiary since 1994
www.tampoprint.com



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