



PUMA

digital printing systems



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With the PUMA you can digitally print and in-line embellish, diecut and finish a label, efficient, in top-quality and all in one pass, onto small reels, ready to be packed.

The PUMA digital-solution is based on DOD/UV-technology (UV-inkjet) and is available as a 4-color module (CMYK) with the options «white» und «varnish».

Due to the modular design of the machine it is possible to extend the digital-printing machine anytime and to integrate well proven embellishing technologies with very low tooling costs and easy setting-up, such as:

Hotfoilstamping (flat)/Embossing

Screenprinting (flat)/UV or Jet

Varnishing

Lamination

PUMA basic machine



PUMA iT mprint



PUMA iT AFINIA



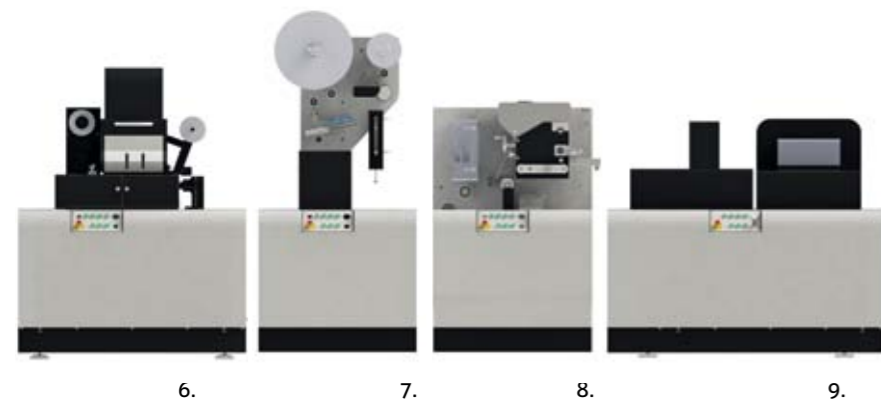
PUMA basic machine



Digital printing unit	mprint with 4 colours CMYK option: white + varnish	Printing heads	Kyocera
Web width	210 mm	Substrates	Paper, PP, PE, PVC, metallic paper/foil
Printing width	210 mm	Machine speed	max. 8000 Impr/h (22 m/min at diecutting-length 165 mm. Option: 304.8 mm) (digital printing unit: 78 m/min)
Resolution	600 x 600 dpi (physically)		
Drop size	3 / 7 / 11 / 14 pl.		

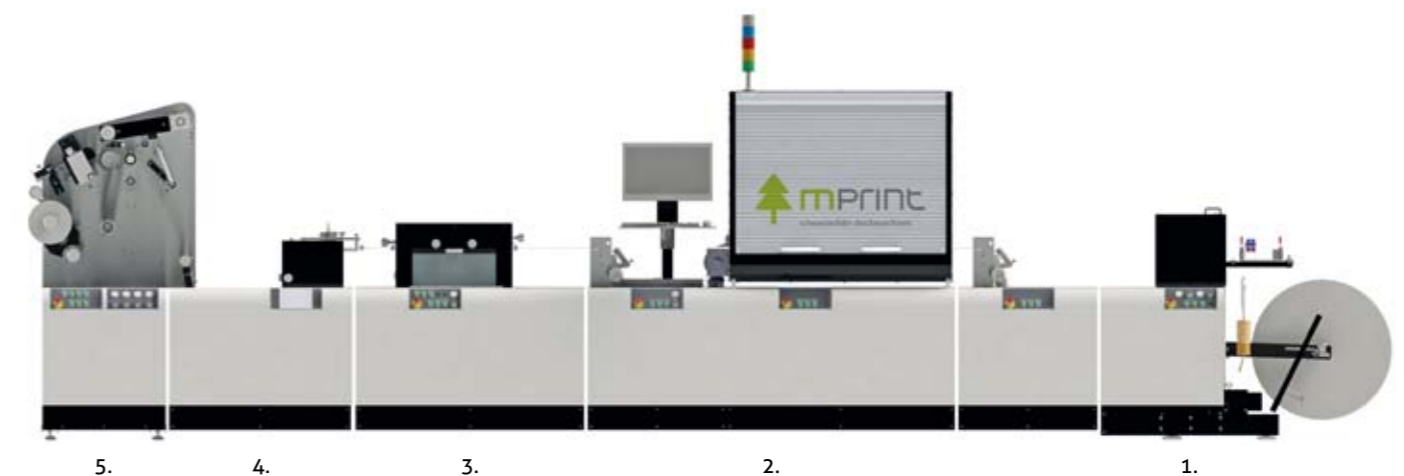
PUMA options

6. Hotfoilstamping <ul style="list-style-type: none"> Foil transport with foil-saving system Closing force 10t Option: Insetting system for hotfoil-stamping of hologram pictures 	7. Laminating unit <ul style="list-style-type: none"> Unwinding device with pneum. brake Rewinding device with winding motor, pneum. pressure device 	8. Varnish unit <ul style="list-style-type: none"> Flexovarnish unit UV drying
		9. Flat screen printing unit <ul style="list-style-type: none"> UV drying Option: Hot air drying



Specifications PUMA basic machine

1. Infeed	
	<ul style="list-style-type: none"> Unwind with roll lifting device Splicing table, pneum. Vacuum infeed brake Options: Web cleaning, Corona unit
2. Digital printing unit	
Mechanical design	Prepared for mounting of 6 print head, including pinning
Substrate table	for guiding the web of material below the print heads
Cleaning/maintenance	unit consisting of ink-collector, ink recirculation and automatic wiper
Intermediate drying	<ul style="list-style-type: none"> UV LED air-cooled power approx. 3 watts/cm² adjustable via machine control
Final drying	<ul style="list-style-type: none"> UV LED water-cooled power approx. 20 watts/cm² adjustable via machine control
Ink Supply System	<ul style="list-style-type: none"> Ink tank with integrated pump, level control and filter unit intermediate tank with level control, integrated into the print head
System control	<ul style="list-style-type: none"> PLC/motion controller for controlling the linear units, drying units, maintenance unit, ink supply system Sensor for synchronization of webspeed and print speed PC with touch screen for machine operation Software for machine control and processing image data Color Management and RIP software included as standard
3. Rolling-segment diecutting unit	
	<ul style="list-style-type: none"> Pneum. quick-lock for fast tool change Servodriven Fine register adjustment on the tool
4. Web transport	
	<ul style="list-style-type: none"> Electronic feed system Insetting
5. Rewinding	
	<ul style="list-style-type: none"> Matrix rewind unit Length slitting device Quick change unit



PUMA iT mprint



The digital-printing unit **PUMA iT mprint** for integration into existing machine systems Gallus T 180/200 or Graficon T 200

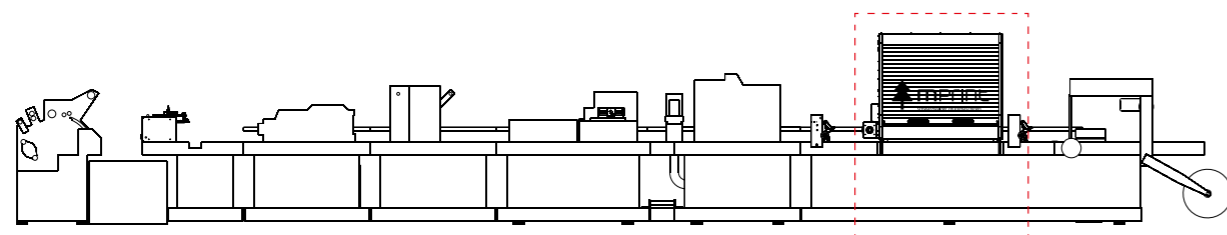
The digital-printing unit **PUMA iT mprint** allows you to upgrade your T 180/200 with a **cost-efficient** solution.

The digital solution is based on DOD/UV-technology (UV-Inkjet) and is available as a4-color module (CMYK) with the options „white“ and „varnish“.

Digital printing unit	mprint with 4 colours CMYK option: white + varnish
Web width	210 mm
Printing width	210 mm
Resolution	600 x 600 dpi (physically)
Drop size	3 / 7 / 11 / 14 pl.
Printing heads	Kyocera
Substrates	Paper, PP, PE, PVC, metallic paper/foil
Machine speed	max. 8000 Impr/h (22 m/min at diecutting-length 165 mm. Option: 304.8 mm) (digital printing unit: 78 m/min)

PUMA iT mprint allows you to enter the market of **high quality** digital printing having the following advantages:

- Digital label production in-line
- Many embellishing options with low production costs
- Easy combination with other technologies such as digital/letterpress/screen printing/hotfoil
- Integration in a well known and proven machine-system
- Utilisation of an existing machine and dcutting tools
- Short learning-curve due to utilisation of existing technologies



PUMA iT AFINIA



The digital-printing unit **PUMA iT AFINIA** for integration into existing machine systems Gallus T 180/200 or Graficon T 200

The digital-printing unit **PUMA iT AFINIA** allows you to upgrade your T 180/200 with the **most cost-efficient** solution.

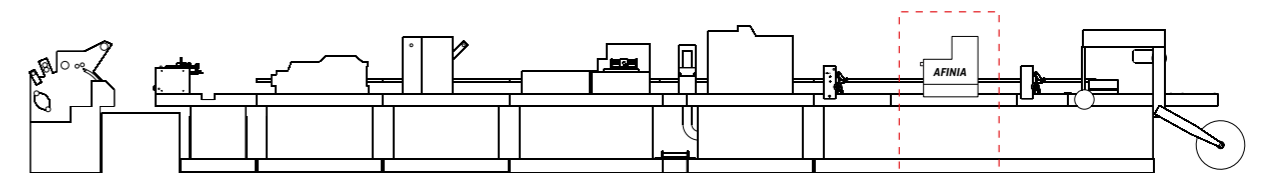
This printer allows you to make the first step towards digital printing with a very low and affordable investment.

The dynamic printing technology is based on new nozzle technology developed from the company memjet.

Digital printing unit	AFINIA with 4 colours CMYK (2x black)
Web width	210 mm
Printing width	210 mm
Resolution	1600 x 1600 dpi
Printing heads	memjet.
Substrates	Paper, PP (inkjet-material)
Machine speed	max. 8000 Hub/h (22 m/min at diecutting-length 165 mm, option: 304.8 mm) (digital printing unit: 18 m/min)

PUMA iT AFINIA allows you to enter the market of digital printing in the **most cost-efficient** way having the following advantages:

- Digital label production in-line
- Many embellishing options with low production costs
- Easy combination with other technologies such as digital/letterpress/screen printing/hotfoil
- Integration in a well known and proven machine-system
- Utilisation of an existing machine and dcutting tools
- Short learning-curve due to utilisation of existing technologies





Graficon Maschinenbau AG

Hofenstrasse 19 • CH-9301 Wittenbach/St. Gallen • Schweiz

Telefon +41 71 292 16 16 • Fax +41 71 292 16 00

info@graficon.ch • www.graficon.ch

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