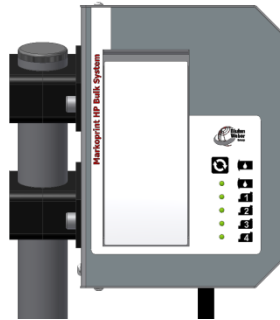# Markoprint ZTV HP MK2

Material	VA
Weight (Without tank and cartridges)	Ca. 2.000g
Dimensions (Without tank and supply hose)	124,5,x228,8x286,3mm
Protection class	IP40
Power supply	24V DC
Power consumption (4printheads)	
Length supply line for cartridge	1,20m
Versions	
	1 Printhead
	2 Printheads
	3 Printheads
	4 Printheads
Not included in the delivery	
Ink tank	1 pcs
Cartridges	Depends on version
Connection cable X2JET	1 pcs (length 5m)
Connection cable X4JET/X8JET	1 pcs (length 5m)

Reason:

The new bulksystem ZTV HP MK2 has been developed for the use of solvent-based inks.

Description:

The ZTV HP MK2 is an ink supply system with integrated intelligence. This makes it possible to operate the system completely autonomously. The ink supply is controlled by a pressure regulator and is independent of gravity and vibration. In addition, a supply of solvent inks is no problem.

The cartridge is monitored by an integrated level sensor. If a defined filling quantity is undershot, it is automatically re-filled.

Advantages:

- Automatic gravitational independent ink supply
- Free installation height of the tank
- Internal, independent monitoring of the system
- No frequent cartridge replacement as with single cartridges
- Low price difference to the ZTV HP MK1
- SmartCard monitoring of the cartridges and the ink tank
- Usable for solvent inks
- The system pays for itself quickly thanks to a lower ink price

Limitations:

- Only HP2580 ink is available for product launch
- The ink SDBLK3 is available as an alternative in the near future
- The Bulksystem can only operate in conjunction with an X2JET / X4JET / XB4JET or XB8JET.

Article numbers:

ZTV HP MK2 Single	40045375
ZTV HP MK2 Twin	40045376
ZTV HP MK2 Tripple	40045377
ZTV HP MK2 Quad	40045378
Adapter cable X2JET (5m)	40048658
Adapter cable X4JET (5m)	40048659
Ink tank ZTV HP MK2 HP2580	40045776
Ink cartridge ZTV HP MK2 HP 2580	40045774

Functionality:

When an ink tank is inserted into the system, a low pressure is built up in the ink tank via a pump.

Ink Tank ZTV HP MK2

The current filling level of the cartridge is interrogated via an interface directly at the cartridge. If a certain value is exceeded, a valve opens to the affected cartridge and refill them automatically.
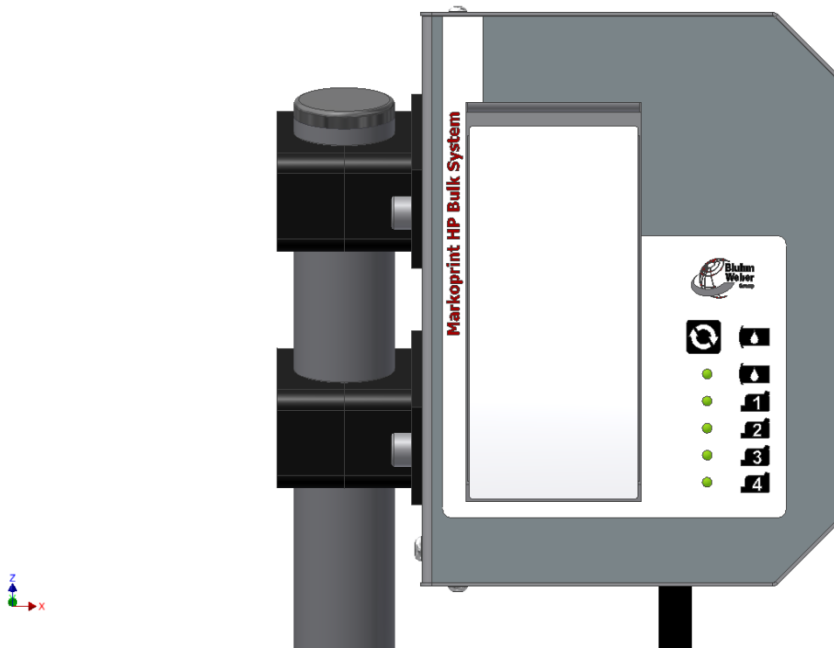

Cartridge ZTV HP MK2

Since the system is controlled by pressure, the bulk system can be installed above, at the side and below the print heads. The height of the system does not matter; in addition, no regulator is required.

There are several indicator lights on the front of the system. The upper light indicates the state of the ink tank. When the tank content is low, the LED turns yellow. When the tank is empty, the LED turns red. A red flashing indicates a defective ink tank.

The LEDs below indicate the state of the respective cartridges. A yellow signal indicates a refill requirement. Red indicates that the cartridge is empty and a red flashing indicates a fault in the ink cartridge.

Front ZTV HP MK2 4Heads

A cartridge can process a flow rate of 1.2l before it has to be replaced. In the case of a 1-head system, this corresponds to 3 tank tanks (400 ml per tank).

In the case of a 4-head system, it is necessary to change the cartridges after 12 ink tanks.
The actual amount of ink required per cartridge may differ.

SmartCard monitoring

The ZTV HP MK2 is monitored by SmartCard, which gives the customer additional security.
The following data are automatically determined via the SmartCard of the ink tank:

-Original HP cartridge and tank
-Durability
-Ink low state not set
-Inktype

If one of the listed values is incorrect, or the values of the cartridges and the ink tank differ, the system will not start and close all valves. This will prevent mixing of the inks and a fouling of the system.

This does not allow the use of wrong or expired inks.

Example calculation

In this example, the benefit of a ZTV is calculated. If the customer has a high ink throughput, the purchase price of the ZTV is completely balanced after a short time.

Supply of individual cartridges (example calculation):

1,2l / 35ml = 34 Cartridges for 80.-€ = 2.720.-€

Supply with ink tank and ZTV cartridges (example calculation):

1,2l / 3x tank for 216,-€ and 1x Cartridge for 144,-€ = 792.-€

This is a saving of 1.928.- € with 1.2l ink.

After an ink throughput of about.1,6l with a single ZTV or 1L per head with a Twin ZTV is worth the use of a ZTV.
Apart from the advantages of low production interruptions due to cartridge replacement.

Availability:

The ZTV HP MK2 is available in May 2017 (Interpack).

Price:

The price for the ZTV HP MK2, the ink tank and the necessary cartridges are available in May 2017 on our current price lists.

Installation example ZTV HP MK2