

ink.supply

central ink supply system for
commercial web offset



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Advantages at a glance:

- always a step ahead in efficiency
- solutions made to measure
- using many years of experience

Central ink supply system for commercial web offset

Printing presses are getting more and more efficient, and ink consumption is increasing. There is a trend towards central installations supplying all presses with ink. technotrans is among the world leaders with more than 50 years of experience in the development and construction of central ink supply systems for offset printing presses. You too can benefit from our innovative, proven concepts.

Ink supply with logic

Customer-specific solutions – from the ink room to ink duct filling at the press – are the norm for modular ink supply systems. In close co-operation with you, the client, systems are individually planned and delivered as turnkey facilities.

Over 45,000 ink ducts of varying levels of automation have already been supplied worldwide.

The unit components are complemented by an intelligent data network. This network is used to check the ink tank filling levels, evaluate the ink consumption data of the individual presses or realise integral ink logistics with interfaces to ink manufacturers.

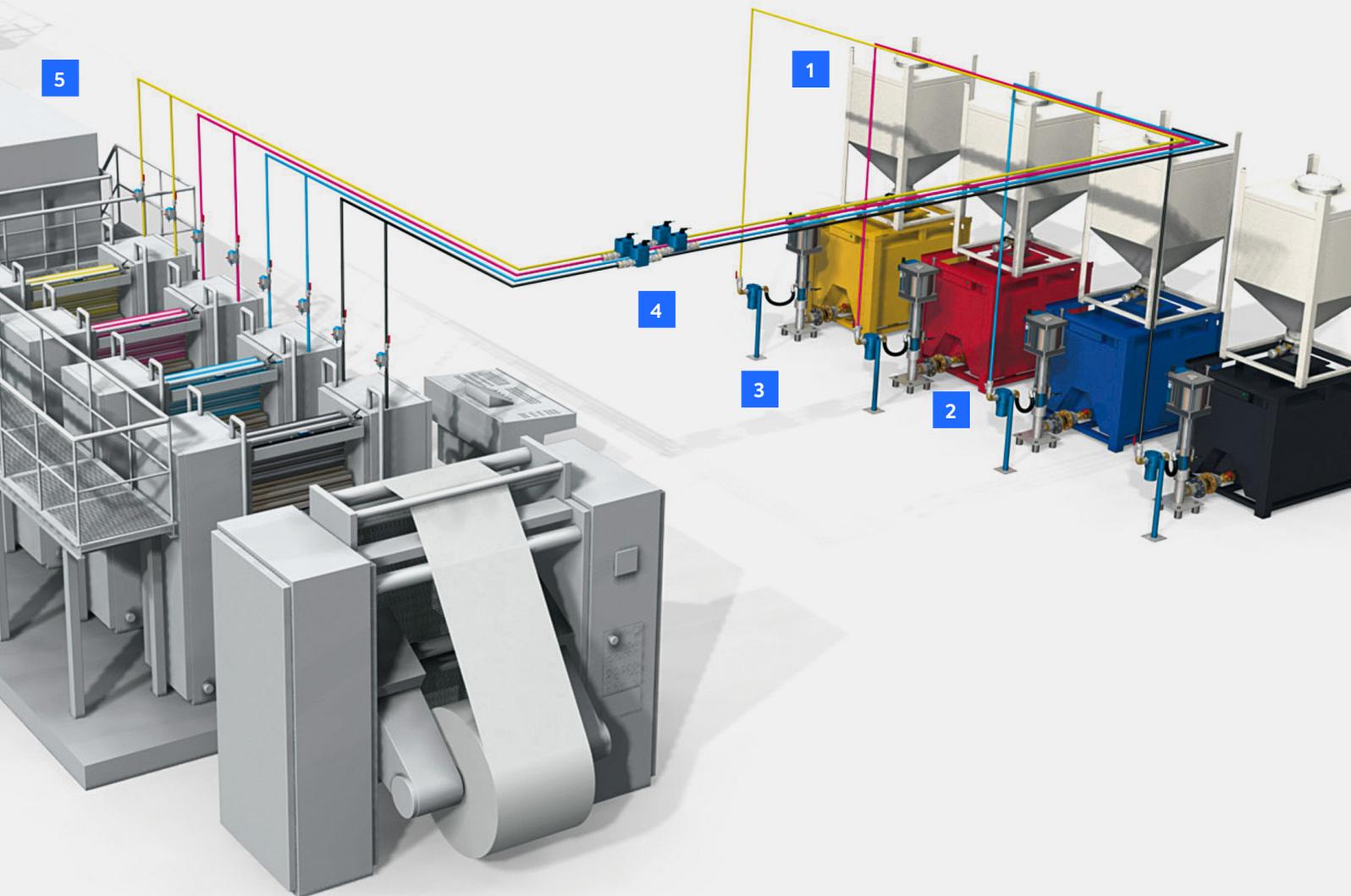
Central ink supply systems consist of components that are matched to each other and create a network that assures an optimum ink supply:

- the ink room with mobile or stationary container station or tank system, and the accompanying high-performance pumps,
- the high-pressure pipework system with ink filters, ink type selection system and consumption meter,
- the ink levelling and control system for ink duct filling

All technotrans ink supply systems are based on the same principle: Reliability! Reliability! And a little extra reliability!

Satisfied customers are our best reference. Our many years of experience have taught us how important process stability is, and we have devised countless detailed features to keep processes stable.



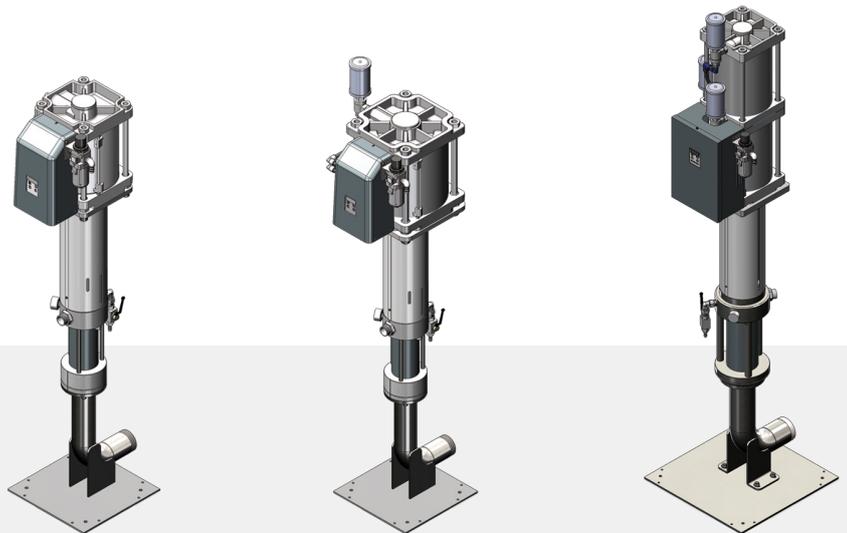


- 1 | Mobile container with monitoring
- 2 | Stationary container with conti.control
- 3 | Pump station
- 4 | ink consumption metering calcu.ink
- 5 | auto.fill
- 6 | Display and control

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Advantages at a glance:

- ink in motion
- wide variety of control and monitoring options
- pack sizes as required
- ink and web changes made easy
- operation parameters at the push of a button
- always the right level



› Pump range for web offset

The pump range

We have developed pneumatic and hydraulic high-pressure reciprocating pumps, especially for offset printing – both of which offer exceptional durability.

A complete range of pumps is available, from the 200 kg drum pumps to the large container pump with an extrahigh pumping capacity. All versions are notable for their optimum ease of operation and maintenance.

The ink pumps are monitored by an electronic pump control in conjunction with a power supply. This auxiliary device is unnecessary for straightforward applications. In this case, the compressed-air-controlled TCP/ TCH TCA series is then used, instead of the processor-controlled pump series.

Stationary and mobile containers

Depending upon ink consumption and the amount of space available, a container system or even a central tank system can be used. Stationary containers are a logical solution to extending an ink supply system from standard

mobile containers. These stationary containers are filled from the mobile containers, resulting in a simple, clean arrangement that reduces costs.

Simple, as there is no need for a fixed connection between the mobile container and the stationary container.

And clean, because there is no need to couple and uncouple the pump and therefore no risk of ink spillages on the floor. Moreover the pump will not run empty, so if air cannot penetrate the system, there will not be discharges of air causing contamination. Cost-reducing as the mobile containers are always emptied completely, rendering it unnecessary to weigh the ink remaining in them.

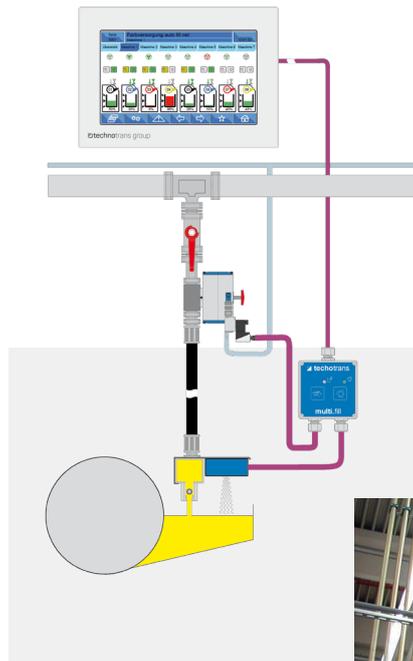
These are just three of many advantages of this carefully thought-out system.



› Base and exchange containers

Ink type selection system

To supply the appropriate ink (LWC or NEWS) for different printing substrates, a 3/2-way ball valve is installed in the pipework upstream of the machine. It can be changed over manually or automatically from the control panel.



› ink level regulation auto.fill

ink consumption metering

The calcu.ink flow metering system makes it possible to measure the ink consumption per press and ink type, for each order or as a monthly or annual figure. A flow-rate measuring head is installed in the pipework to this end. The ink consumption data can be fed directly into the customer's own computer network.



› color switching ink.select and colour filter

ink level regulation

technotrans is the world market leader for ink duct filling, with many thousands of installed systems. A wide variety of systems with a wide range of automation levels is available. The auto. fill is particularly suitable for commercial web offset. This product is notable for its space-saving design and impressive reliability.

An ultrasonic sensor monitors the ink level in the ink duct. If the ink level falls

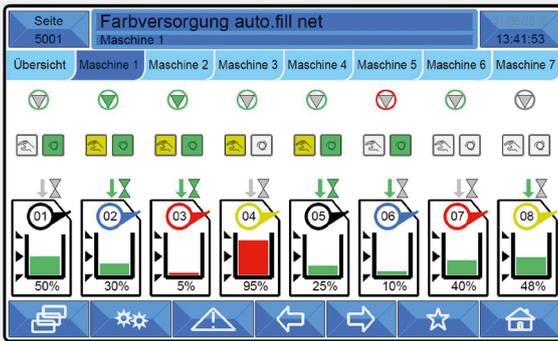


› ink level regulation

below the specified target level, the ink valve is opened until the ink reaches it again. This automatic supply principle thus maintains a constant ink level. Ease of operation and operating reliability are boosted by:

- **ultrasonic double transformer sensor with integral inclination switch and LED displays,**
- **manual/auto switch for changeover to manual operation,**
- **ink valve, shuts off automatically in the event of low compressed-air pressure, including emergency manual operation.**

A central control and display unit ensures that all the necessary information is available and provides a prompt, unmistakable alarm if there is a risk of the ink duct overflowing or running empty. A press control integration is possible.



› left image: inkduct monitoring via high.control
› right image: ink consumption metering

Display and control

The high.control supplies all the required data: the ink level in the stationary containers or tanks, the ink consumption data for the press and the momentary status of the ink duct level control. The target level can in addition be specified.

The data transmission into the customer's network is possible as well as the connection of the ink supplier via internet technology. Therefore further information and statistics can be applied individually.

In addition to straightforward operation, the system offers the following key features:

- colour monitor as touch
- detailed operation and fault messages
- fault indication memory
- help feature
- various languages
- possibility of remote control

Whether for sheetfed offset, coldset or heatset printing, technotrans offers a unique range of coordinated products and therefore a solution for every operation.

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Advantages at a glance:

- cost saving through automated
- production reliability – no idling of the ink ducts
- coordinated, networked components
- mature visualization of the operating conditions
- numerous safety features
- integrated early-warning and fault signal function