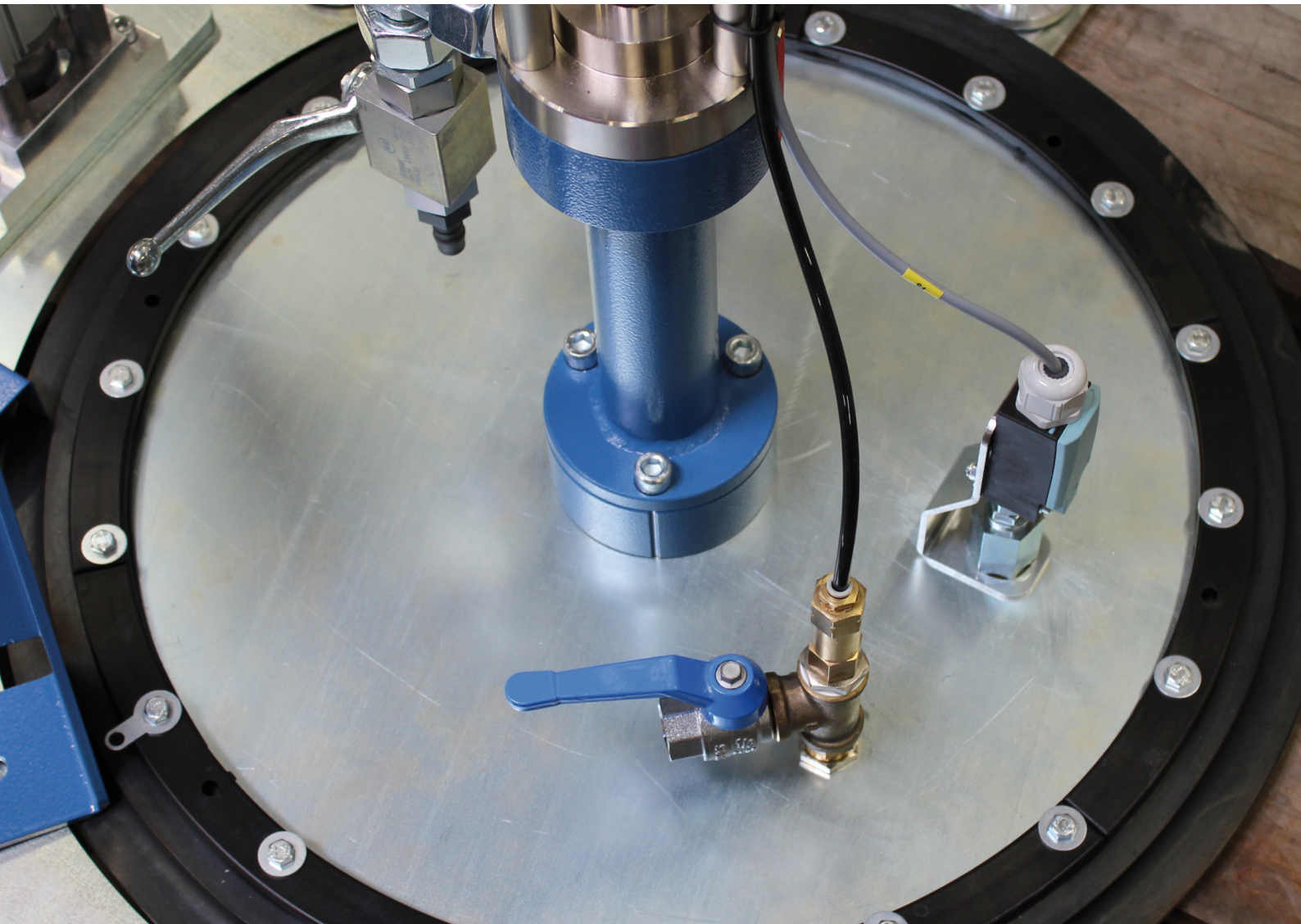
technotrans

power to transform

ink.supply

Central ink supply system for
sheetfed offset



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Advantages at a glance

– „state of the art“ automation

– turn key solutions

– reliable process stability

Central ink supply system for sheetfed offset

Make full use of the power of modern printing presses: with customised automation of the ink supply system for the process and special colors, with a free choice of the container sizes.

technotrans has developed an unique product line that permits a central ink supply for sheetfed offset printing from large containers or 2 kg cartridges – tailored individually to your specific requirements!

Printers who still use the can and ink knife approach should seriously consider whether their method is really capable of keeping up with increasing press speeds and the rising number of printing units per press.

Fluctuating ink levels in the ink ducts and the need to keep inspecting the ink level are further drawbacks, to which there is really only one solution: automation.

Ink supply with method in it technotrans

ink supply systems supply all sheetfed printing presses at your printing shop with ink on demand, with various degrees of automation possible.

Central ink supply systems have proved an effective means of supplying process colours. These comprise three components:

The pump station:

High-performance pumps transfer the ink from trading units such as hobbocks, barrels or mobile/stationary containers to the printing presses.

The pipework system:

High-pressure pipework systems with ink filters and integral consumption measurement deliver the ink to precisely the point where it is required.

The filling system:

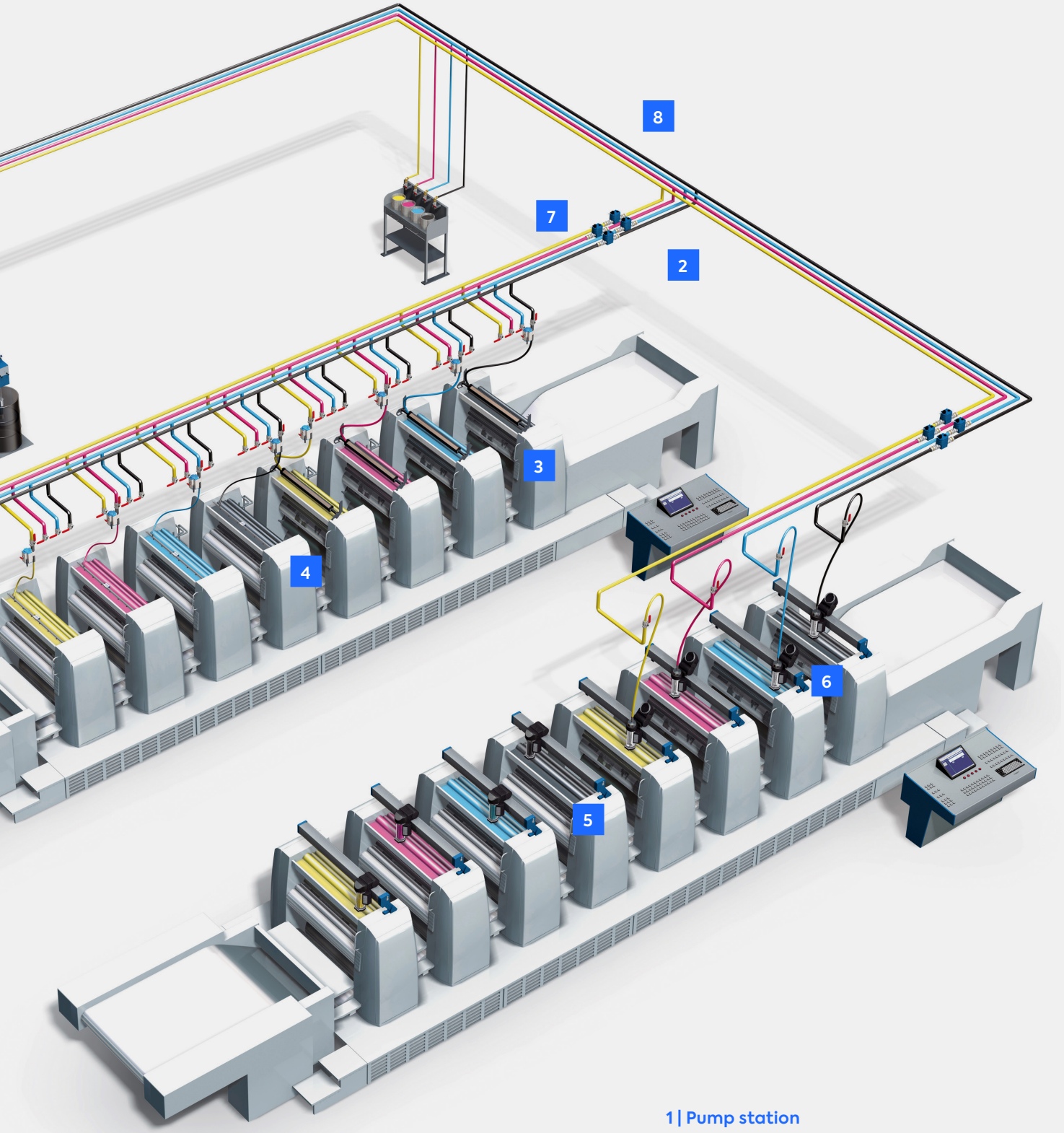
Fitted above the ink duct, and with different level of automation and operating comfort as required.

The 2 kg ink cartridge is ideal for moderate levels of ink consumption and for special colors. technotrans is able to offer you solutions ranging from semi-automated squeezing to systems regulated fully automatically.

Do you need a combination of a central ink supply and fully automated cartridge handling? Our direct ink.line is a unique system that can be adapted individually to every constellation of requirements and gives the printer maximum flexibility.

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

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 | Pump station

2 | ink consumption metering calcu.ink

3 | ink.trac

4 | auto.fill

5 | ink.line

6 | direct ink.line

7 | ink.desk tapping station

8 | Pipeline

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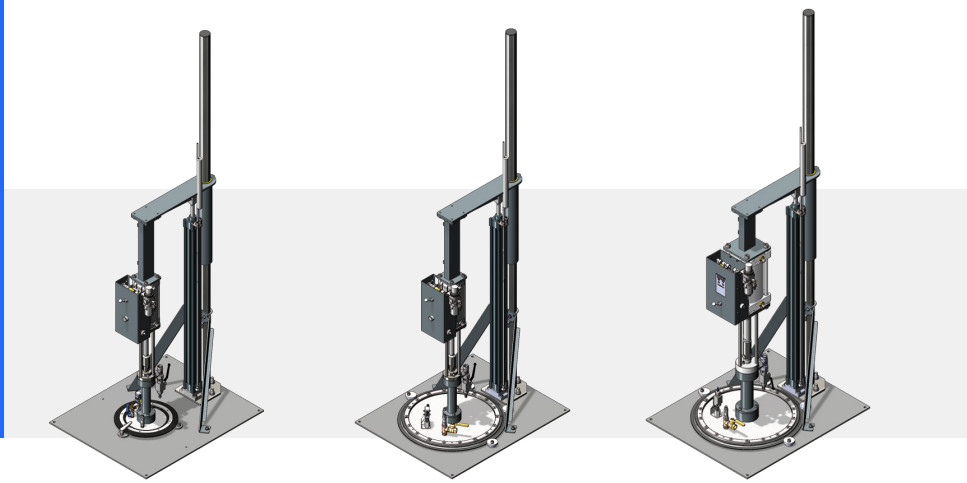
Advantages at a glance:

– color in motion

– always the right level

– closed system



pump station

The ink pumps with pneumatic drive developed specially for sheetfed offset printing are responsible for the movement of the ink.

We offer a complete range of highpressure reciprocating pumps, from the 25 kg hobbock pump to the large container pump. Optimum ease of operation and maintenance and a lengthy service life are features that are common to all versions.

The 200 kg barrel pump and the 320 kg container pump are the versions most commonly used in sheetfed printing. The quality is in the detail: the ink follower plate rests on the ink. This prevents air from penetrating, and the entire system right up to the ink duct remains enclosed.

A limit stop on the barrel pump prevents air from being announced when the barrel is empty and the pump does not run dry and wears out quickly. In addition, the operator is advised to change the barrel. As an option, the pump can be equipped with an early warning device so that preparations can be made for changing the barrel in good time. Operating reliability can be further boosted by an alarm message if there is a drop-off in the internal compressed air supply.

All pumps are equipped with a sampling valve and are optionally available as a mobile version with floor castors. This device allows individual samples of ink to be dispensed into a can or the ink quality to be inspected. For printing shops where ink needs to be dispensed into a can more frequently, there is the ink.tap ink deposit with ink outlet valve and low-drip valve, or alternatively the ink.desk drawing bench in manual and semi-automatic versions. This can be connected up to the ink pumps for several colours.

An electronic pump control in conjunction with a power supply constantly monitors the processes, though this auxiliary device is unnecessary for straight forward applications. Instead of the processor-controlled TBP pump series, the compressed-air-controlled TBA series is then used.

ink levelling and control system ink.trac

The patented ink.trac has been developed as a highly integrated solution for the central, fully automated filling of ink ducts on sheetfed offset presses. The compact device integrates all components of the ink level control: the control system with display and control panel, the sensor, the ink valve and the ink distributor pipe with special low-drip ink outlets. It is consequently very easy to install. Only the supply lines for the electricity, compressed air and ink need to be connected up to the ink.trac. This is a genuine plug & play concept of modern design, for discerning users. Faults are signalled via a flashlamp and reported optionally to the computer.

› installation of ink.trac

Displaying and controlling with uni.control
The microprocessor-controlled computer supplies all the required data: the ink consumption of the press per order or shift in conjunction with the calcu.ink consumption meter, and the momentary states of the ink duct level control. The target level can in addition be specified. The data can be exported into the customers‘ network. The system offers the following helpful key features:

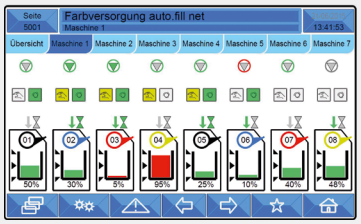
– colour touch display 7“

– detailed operation and fault messages

– fault indication memory

– help feature

– various languages



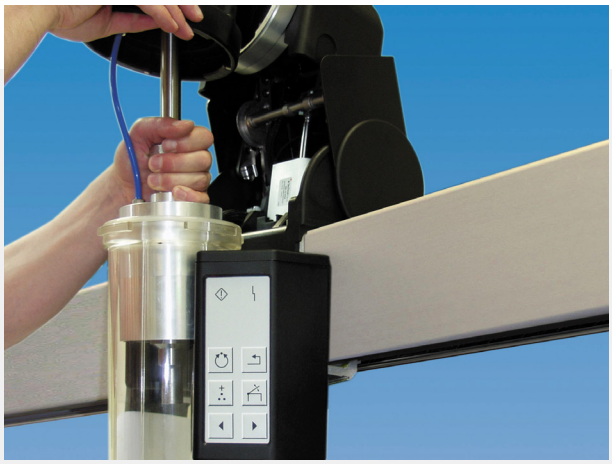
› operation and controlling with uni.control

1 | ultrasonic double transformer sensor developed specially for ink level monitoring, with integral inclination switch, LED displays and analogue or switching outputs

2 | manual/auto switch for changeover to manual operation

3 | ink valve, shuts off automatically in the event of low compressed-air pressure, including emergency manual operation

ink level control auto.fill
These system are likewise fully automatic ink duct filling devices. A sensor that is clipped onto the ink filling tube monitors the ink level in the ink duct. If the ink level falls below the target level, the ink valve is opened until the ink reaches the level again. Set points can be adjusted by the customer via a sensor programming device or optionally vie the central uni.control unit. The operating status will also be provided via this control device. Faults are signalled centrally via a flashlamp as.



› left image: ink.line, fully automatic system for supplying from 2 kg cartridges
› right image: direct ink.line, combines the use of central supplying and the application of cartridges

alternative ink duct filling

Ink supply with the 2 kg cartridge
The 2 kg ink cartridge has become established as the industry standard. It combines a whole array of advantages: above all, it is clean to work with and can be emptied completely. As ink residues can be stored in airtight conditions, they can be used at a later date without any loss of quality. There are fully automatic and manual ink supply systems available for use in conjunction with the cartridge.

ink.line
This fully automatic system for supplying the ink from 2 kg cartridges is especially suitable where special colours are frequently used and the ink is changed frequently. As a self-propelled traversing system, ink.line permits minimal ink levels in the ink duct. Ink is only added specifically where it is needed. This guarantees swift ink changes and low ink losses.

direct ink.line
This combines central ink supply systems with the use of 2 kg cartridges. Depending on requirements, the process colours are for example supplied via the central ink supply system and the special colors from the cartridge. This highly advantageous combination means that direct ink.line reserves maximum flexibility.

ink.line

Advantages at a glance:

– fully automatic ink duct filling

– cost saving due to less left-over ink and application of bulk packs

– quality improvement with stable ink level

– increased production safety - no idling of the ink ducts

– more flexibility – special colours can still be filled from the can or cartridge

– improved visualization of the operating state and determining the ink consumption

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