

## Brilliant print quality due to well-engineered pump technology

Spandau Pumps has been developing and producing color feed pumps and systems for the printing industry for over 30 years.

These high-quality pumps with ATEX certification are now being used around the world and are preferred by renowned printing machine manufacturers.

- Officine Meccaniche Giovanni Cerutti
- SpA Windmüller & Hölscher KG
- WINKLER+DÜNNEBIER AG





### Pulsation free color application

The centrifugal pump with an open impeller has proven itself to be the best construction principle. This pump technology ensures pulsation free, consistently precise and protective color application on the print substrate without adverse effect to the physical color properties to achieve the highest quality printing results.

### Reliable and maintenance-free

Color feed pumps and systems are available with a chemical surface sealing compatible with most cleaning methods.

All pump series share special pump hydraulics, which ensure reliable pump performance even with highly viscous media for a remarkably long service life. The centrifugal pumps are free of seals and have rolling bearings with lifetime lubrication. No additional maintenance and/or service expenses are incurred due to the fact that almost no parts subject to wear have been used.

### Extremely short changeover times

The construction design with an open impeller ensures fast and simple pump cleaning. In addition to this, the PAB series allows for separating the drive including the electrical connection from the pump with quick-release coupling to ensure uncomplicated color changeover procedures.

### Variety of versions

From the standard solution to special customer-specific solutions, we provide centrifugal pumps as compact immersion pumps for flexoprinting and rotogravure applications. The easy to handle immersion pumps are installed directly in the color tank and are available in numerous designs for various different delivered media, quantities and heights. They can be provided with various drive options. These include standard motors according to DIN EN 60034 through to the protection class EExd. Furthermore, the immersion pumps can be provided with all standard electrical connection ratings.

### Explosion-proofing as per ATEX 95

The pump groups PAB and PNB are ATEX approved – they are certified and marked accordingly. The corresponding certificates of conformity as well as type approval certificates and/or certificates of deposit are available for both groups of pumps and can be obtained on request.

Group	Q <sub>max</sub>	H <sub>max</sub>	Brochure
PAB	305 l/min	20 m	1-3036-EN
PNB	830 l/min	8 m	1-3036-EN

