

# Advantages of Industrial Inkjet Printing Machines

## Detaylı Tanım :

If you're in the market for an industrial inkjet printing machine, you've probably heard about the different types of ink available. But what are the advantages of industrial inkjet printers? And how much do they cost? Here are some of the things you should know before purchasing one. To start with, you should choose an inkjet printer that's compatible with the materials you'll be printing on. This way, you'll be able to monitor your production and make necessary changes in real time.



## Coated paper for industrial inkjet printers

Industrial inkjet printers require coated paper. Coated paper is made of a special material that is resistant to solvents and water. Its absorption properties enable it to print large volumes of data at high speeds. Uncoated paper is often used in offset and gravure printing. Coated paper for industrial inkjet printers is also available in commercially available forms. Here are the benefits of coated paper for industrial inkjet printers. Currently, uncoated inkjet paper works very well for transactional printing, such as books and other printed materials. But as soon as the inkjet technology reaches the commercial sector, it needs better-quality paper for commercial and direct mail work. However, the history of inkjet paper makes it difficult to make a judgment about how it performs in industrial applications. Therefore, it is important to compare the performance of different types of inkjet papers before making a decision.

The coating layer of the paper undergoes a super calender and a calendering process. These processes deform the pores in the coating layer. Higher coverage gives more time to dry. In addition, different types

coated paper have different drying characteristics. For instance, matte coated paper has a longer dry time while glossy sheets dry quickly. Press teams should try various types of coated paper before deciding. Coated paper for industrial inkjet printer can offer enhanced image quality and smear resistance. The coatings can be made of different pigments to enhance the whiteness of the printed material. They can be FSC and PEFC certified. This means that the paper is environmentally friendly. And it is also recyclable. If you want a more environmentally friendly printing solution, then coated paper may be the way to go. The materials used to manufacture coated paper for industrial inkjet printers include Ben Fa Ming nix, kataroidoAS-3, Ri Chan Hua Xue Gong, and M-200. They are abbreviated in Table 1.

The pretreatment fluids used to make coated paper are generally the same as for offset paper, but the differences between the two types of papers are subtle. Coated paper is more absorbent than uncoated paper, which makes it more compatible with inkjet printers. Moreover, coated paper is made of less polymer materials and therefore requires inks with better adhesion. So, this type of paper is the best choice for industrial printing.

The binder used in coated paper is the key to the coating's surface strength. The binder in this type of paper also helps maintain the suspension's flowability and stability. Its addition to polymer particles increases the coating's surface strength. Binders also affect the ink absorption of the coating. Its addition improves the quality of the printed images. This paper is especially useful for commercial inkjet printing, which uses digital technology.

#### Ink types used in industrial inkjet printers

Industrial inks are widely used in a variety of industries. The automotive industry uses them to mark parts, as do medical and electronics industries. Other uses include the paper and lumber industries. Some industrial inks are solid, which means they are always in a solid state at room temperature. This type of ink provides enhanced print quality on paper and other materials. Ink dispersal methods for solid inks include toner and sticks.

There are several types of inks, and more are being developed each year. It's important to understand the differences between them and find the best one for your needs. It can be helpful to ask your prospective commercial printer what types of inks they use. This way, you can ensure the quality of your prints and save money on ink costs. Listed below are some of the different types of inks commonly used in industrial inkjet printers.

Solvent inks use a volatile organic compound (VOC) as a carrier fluid. The solvent dries quickly and leaves a strong odor. Soluble inks are inexpensive, but need special ventilation systems to remain stable. They are used in outdoor signage because of their fast drying time. However, solvent inks require special printers, which are not available with Epson printers.

Water-based inks contain a liquid carrier. They are used to print on coated materials, as their colorants are easily absorbed by the coating. Water-based inks are also known as dye inks, but they are used primarily for

graphic and textile applications. Most printers with water-based ink systems use Aqueous inks. But the types of inks are not always the best option for industrial applications.

Solvent inks are a great option for many applications. They are waterproof, fade resistant, and allow printing on flexible surfaces. This type of ink is able to print on plastic, vinyl, and other substrates. They are also waterproof, water-based, and UV-curable. Soy-based inks are also eco-friendly. They contain a high volume of volatile organic compounds.

Piezoelectric inkjets use thermoplastic inks. Thermoplastic inks are sometimes confused with thermal inkjet technology. But bubble jet inks are solid at room temperature, while thermoplastic inks need to be heated to reduce their viscosity. Howtek was the first to use thermoplastic inks. This technology has become a mainstay in industrial inkjet printers.

Pigment-based inks use fine color powders as colorants. These inks resist ultraviolet light better than dye-based inks. The latest pigment inkjet printer from Arrow is the Arrow Aquajet 330R, which has a Duracoat engine. These printers offer a variety of features, including a laser finishing system. This technology provides a high level of print quality with no risk of transfer to other materials.

#### Cost of industrial inkjet printers

The cost of industrial inkjet printers should be carefully considered before buying one. While the initial purchase price may be the most important factor, other factors must be considered such as the durability and reliability. Cheap plastic models simply cannot handle the daily workload of a production line, resulting in frequent work stoppages, costly repair bills, and general unreliability. The more you pay for a high-quality industrial inkjet printer, the less likely you will have to worry about repairs and maintenance in the future. The market for industrial inkjet printers is highly competitive, and you will need to be prepared for the best. The good news is that you can request a free market research report for your industry. It will give you valuable information on industrial inkjet printers and help you make an informed decision. A well-researched report will help you choose the best industrial inkjet printer for your company.

In addition to the initial purchase price, you should factor in the ongoing costs of using a CIJ printer. Total costs may include consumables, maintenance, and service contracts. Combined, these costs may reach as much as two to three times the purchase price over the lifetime of the printer. Unless you perform a Total Cost of Ownership (TCO) analysis, you may be left with an incomparable machine. Therefore, evaluating the TCO of an industrial printer is critical to your bottom line.

The cost of an industrial inkjet printer is important for your business, but you should also consider how often you will replace the ink tanks. After all, you need to consider how much ink you need to get through 200 prints. In other words, if you use more than 200 prints, the cost of a printout would be higher than that of one single ink cartridge. If you are thinking about purchasing an industrial inkjet printer, think long and hard. A high-quality industrial inkjet printer can save your business time, money, and frustration. Choose a printer that will work for your business. In addition to being efficient, industrial inkjet printers are also easy to

and will help you get the most out of your investment. Investing in the right one will ensure your business productivity for years to come. The benefits of purchasing one that is suited to your needs are endless. Hanyi is an industrial inkjet printing machine manufacturer with a strong focus on Direct Marking Technologies. The company provides high-precision, traceability, turnkey process automation solutions using portable dot peen and laser marking technologies. It's a versatile machine that allows you to print in 3-degree directions. It is capable of printing on porous and non-porous surfaces. Unlike other industrial printers, it is able to print on plastic bags, rubber stamps, and even on many types of metal.