GHS LABELING GUIDE

This infographic reviews the different printing methods for a GHS labeling system.

There are a number of different printing methods companies can use to print GHS-compliant labels.

The challenges for businesses are to choose the best technology and system that

fits the company's unique needs, and provides maximum return on investment (ROI).

We consider the following important information when choosing your system:

How it works

- Pros
- Cons
 - When to consider

This simple overview will help you understand and evaluate which printing method is best for your needs.



Thermal Transfer (1 color)

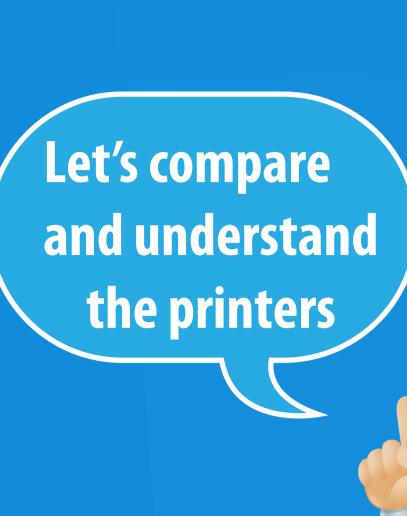
with Pre-Printed Labels

Two Color Thermal Transfer

with Blank Labels

What is the best print method for my GHS labeling needs?







Color Laser with Blank Labels







Thermal Transfer (1 color) with Pre-Printed Labels

How it works Pre-printed labels with red pictogram borders

- Print the "black" portion of the GHS label Pros
- May already be present in your operations
- Fast throughput
- Lots of flexibility for specialty labels Synthetic film labels for chemical resistance
- Lower media costs compared to inkjet and laser Cons

Must maintain an inventory of pre-printed labels

- Must ensure the correct diamond configurations Frequent label roll changes

Very small number of product SKUs

When to consider this option

- Products use the same label size and format

A special custom label is required

Laser (Monochrome) with

Pre-Printed Labels How it works • Uses pre-printed labels with red pictogram

- Print the "black" portion of a GHS-compliant label Pictograms printed inside the red diamond borders
- Pros Printers may be present in your operations
- Cons Maintain an inventory of pre-printed laser labels

borders

- Excessive printer wear and maintenance costs Frequent jams and break downs Wasted labels and laser sheets
- Limited choice of labels for chemical exposure

Slow throughput

When to consider this option Limited number of product SKUs at a low volume

Color Inkjet with Blank Labels How it works

Uses special inkjet-receptive labels

• Software creates labels in full color

Uses specially formulated ink cartridges

No need for pre-printed label inventory Multiple labels can be printed without changing

applications

Pros

- label rolls No waiting time for image to dry Durable and resistant to water and chemicals
- Can use a variety of label sizes
- Custom labels can be produced with this printer • Create color labels for use in other business
- Cons Requires specialty labels

- Cost of labels and ink Slower print speeds Ink waste during printer stop/start
- When to consider this option • Large number of SKUs with different label sizes,
- layouts and pictograms High volume of products • BS5609 applications
- Applications for on-demand color labeling in other areas

How it works Dual printheads for the red and black ribbons

 Pre-defined label formats in software Pros

Two Color Thermal Transfer

with Blank Labels

- No inventory of pre-printed labels Less frequent label roll changes
- Flexibility for label facestock
- Synthetic film labels for chemical resistance Lower media costs compared to inkjet and laser
- Fast throughput

Cons More expensive than standard thermal transfer

- Must carry 2x the inventory of printer ribbons Ribbon changeover takes longer

Large number of product SKUs with different layouts and pictograms

When to consider this option

- High volume of products that need to be labeled A special custom label is required

Color Laser with Blank Labels

- **How it works** Blank laser sheet labels are used
- Pros No need for pre-printed label inventory

Software creates labels printed in full color

Cons

- Printers may already be present in operations
- Equipment cost Cost of color toner • Excessive printer wear and maintenance costs
- Frequent jams and break downs
- Wasted labels and laser sheets Slow throughput • Limited choice of labels for chemical exposure

When to consider this option

• Limited number of product SKUs at a low volume

• Color laser printer can be used for other applications



Want more information?

Download our Buyer's Guide www.general-data.com/ghs

This buyer's guide will help you understand and evaluate the different methods available for producing and printing

GHS labels for your products, and walk you through everything

you need to consider when building and implementing a

GHS labeling system for your company.

What Not To Do

GHS Label Printing Technology Overview

 Specifying The Right Label Software and Integration Considerations

This buyer's guide covers important GHS labeling topics such as:

Nine-Step Plan For Successful Implementation

www.general-data.com/ghs