

# ANALYSIS OF COMPUTER DESIGN PROGRAMS FOR SEWING ITEMS

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## Abstract

This article discusses the advantages and disadvantages of computer-aided design programs for sewing products used in sewing enterprises.

**Keywords:** Adobe Illustrator, TUKA cad, CoreI DRAW, Gerber Accumark, Optitex, CLO3D.

## Introduction

One of the important tasks set by our state for textile industry specialists and scientists is to ensure that textile products find a firm place in world markets and contribute to their entry into the ranks of economically developed countries.

Today, the garment industry, like all industries, is increasingly using high-quality technical and software tools to increase its efficiency. This, in turn, is determined by the mutual adaptation of technological processes and the automation of the work of production departments, as well as the ability for them to work together.

There are several programs for designing sewing products on a computer. Each of them has its own functions and advantages. We will analyze the most popular programs below:



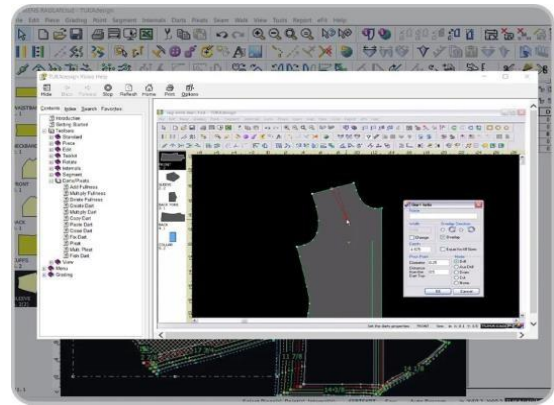
**Adobe Illustrator** - is the industry-leading vector graphics and art software. Developed by Adobe and part of the Creative Cloud suite, Illustrator is a favorite tool for designers and artists around the world. From logos and icons to graphics and vectors, Adobe Illustrator's wide range of professional tools and features make it the leading software for creating digital art.

- Pros: Ability to create vector graphics, expanded design capabilities.
- Cons: Can be difficult to learn, especially for beginners.



**TUKA cad** - is an advanced computer program specifically designed for the fashion industry. It allows professionals and aspiring designers to efficiently create, modify and evaluate patterns digitally, as well as create markers. By using the powerful features of TUKA CAD, we can speed up the design process, reduce waste and increase overall efficiency.

- Pros: Automatically create templates specifically designed for sewing items.



- Cons: Only functions specific to the sewing industry, not suitable for general design.

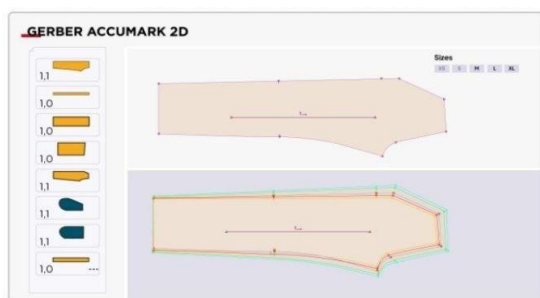
**CoreIDRAW** - The easiest software on the market for graphic designers to use. Graphics is mainly used to create signs, banners, t-shirt designs.



- Pros: User-friendly interface, various templates and graphics available.

- Cons: Some features are less advanced than other programs.

**Gerber Accumark** - This is a fully integrated suite of ALT software applications that allows you to develop a collection that is perfectly aligned with a fashion campaign at the right time, from concept to completion.



- Pros: Professional-grade design and dimensions, well-designed key features.

- Cons: High price, not suitable for small production.

**Optitex** - takes responsibility for the full life cycle of its products and acts as a bridge for designers on the way to production. Allows you to work with digital design and precise calculations with uncompromising accuracy. Using this system, you can easily convert 3D objects into 2D production-ready patterns and markers, and work on high-end interiors with a



platform that is fully compatible with external cutters and plotters.



- Pros: 2D and 3D design capabilities, virtual prototyping.
- Cons: High technical requirements, takes time to learn.

**CLO 3D** is a 3D material design program that creates virtual, real-life clothing visualizations with modern simulation technologies. Working with this system is a little more complicated,

but we can see great efficiency in a short time.

- Pros: 3D Modeling and virtual clothing experience, the ability to see design changes in real time.
- Cons: Requires powerful hardware and is expensive for some users.

These programs are suitable for users with different needs and experience. When designing garments, it is best to use the most convenient and suitable program for us. Of course, each program helps us a lot in implementing new products, modern and high-quality.



We also observed that modern computer programs allow us to increase productivity and develop cost-effective products.

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