How to adjust the color order of the optical separator



Overview

High-precision optical sorting machine (Model CSS) by SGM. Automate separation based on color, shape, and brightness to eliminate manual handpicking.

Key Takeaways

The color order of an optical separator can be adjusted by configuring the machine's software to prioritize specific color channels, fine-tuning sensor thresholds, and saving custom sorting programs for your material. Steps to Adjust Color Order1. Access the Control Interface Most modern optical separators feature a touchscreen or software interface that allows operators to program sorting parameters, including color channels, transparency, and shape recognition.

Log in with the appropriate access level (worker, engineer, or service technician) to unlock color configuration options. 2. Select the Material Profile Choose or create a sorting program that matches the material type.

The software often allows you to autonomously detect material characteristics and suggest default color settings. This ensures the machine recognizes the correct color spectrum for your application. 3.

Adjust Color Channels and Thresholds Optical separators can have multiple detection channels (from one to six) depending on the machine model. You can: Reorder color priorities to determine which colors are ejected first. Set color thresholds to define the range of shades for each channel.

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Fine-tune sensitivity to avoid misclassification of borderline colors. 4. Test and Validate Run a small batch of material to verify that the color order and thresholds are correctly applied.

Observe the ejection sequence and adjust the parameters if necessary to achieve the desired sorting accuracy. 5. Save and Apply the Program Once the color order is optimized, save the program for future use.

Many systems allow multiple programs to be stored, enabling quick switching between different materials or sorting requirements. 6. Use Remote Assistance if Needed Some optical separators offer remote support, allowing technicians to assist with programming or reprogramming the color order for complex materials.

Additional Tips

Regular Calibration: Periodically calibrate sensors to maintain accuracy, especially if lighting conditions or material characteristics change. Monitor Performance: Use the diagnostic system to track valve actuations, system pressure, and material flow to ensure consistent sorting. Adjust Background Illumination: Modifying the intensity of background lighting can improve color distinction and sorting efficiency.

By following these steps, you can effectively adjust the color order of your optical separator, ensuring high-precision sorting and improved material recovery.

Article Content

How to Calibrate Your Color Sorter Machine for Optimal

Proper calibration is key to maximizing your color sorter machine''s accuracy and efficiency. This step-by-step guide explains how to calibrate sensors, adjust color

Optical selector for mixed materials | STOKKERMILL

Optical selector for mixed materials, completes the range of recycling machines and equipment, Stokkermill has developed a series of optical separators that allow you to select the metal fractions

How to sort colors?

Color sorting is typically performed using a color sorting machine equipped with optical sensors and cameras. Here''s a general overview of how color sorting is done: 1.Set up the machine:

Mini Q Color Sorter Operation Guide | PDF | Color | Red

The document provides instructions for operating an AMVT color sorter machine. It describes how to turn the machine on and off, select a sorting scheme for a specific material, turn the

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Chromasort Optical Separators

Cable Management''s optical sorters integrate seamlessly into your processing line. We provide training and instruction on how to handle each different material you will be recycling and help with

Color, Shape, Brightness Sorter – CSS

High-precision optical sorting machine (Model CSS) by SGM. Automate separation based on color, shape, and brightness to eliminate manual handpicking.

Plastic Sorting

The solutions we offer are the highest quality color and polymer optical sorters designed by engineers and researchers from the high technology industry. The optical sorting system for plastics consists of

Optical sorter

Series-produced models of ERGA LuxSortika VF optical separators are given in the table. Customized solutions can be designed according to the order requirements.

Bronneberg Optical Sorting Devices

With an Optical Separator, or colour separator from Bronneberg, you choose a reliable and appropriate solution for your recycling process. Our specialists will be happy to advise you on an Optical

Optical sorter

Fine-tuning of the parameters for rejection (color, transparency, shape, time and duration of ejector opening, background light intensity) ensures achieving up to 99.99% efficiency of separation and

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Cinematography

Is Fotokem the only American lab that still performs traditional color timing? (Using printer lights - no digital intermediate)

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Direct To Video (DTV) Films: The Good And The Bad

I liked it; THE ORDER (2001) is one of Jean-Claude Van Damme''s first DTV films and it''s pretty good. Artifact smuggler Van Damme travels to Israel to rescue his archaeologist father (Charlton Heston in

How Optical Sorting Machines Work And All Their Benefits

How optical sorting machines work? Optical sorting systems use sensors and lighting structures to analyse object properties and separate them based on predefined criteria such as colour, shape, or

Plastic Sorting

Plastic optical sorting process MEYER is a leading manufacturer of optical and color sorters for the recycling industry. We care about the environment and increase the recovery of recyclable materials

Optical sorter

Optical separator LuxSortika VF is intended for separation of minerals with sizes varying from 5 to 100 mm and separation efficiency up to 99.99%. Production of high-quality concentrates The individual

What is Optical Sorting & How Does It Work?

We take a closer look at everything you need to know about optical sorting. What it is, how it works, what it''s good for, and so much more.

Related Video Reference

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