

**SORTING OF RED, YELLOW AND BLUE
COLORED OBJECTS USING AT89C51 MICROCONTROLLER
(PEMISAH BENDA BERWARNA MERAH, KUNING DAN BIRU
BERBASIS MIKROCONTROLLER AT89C51)**

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INTISARI

Proses pemisahan benda banyak dijumpai dalam proses di industri. Pada penelitian ini akan dibahas tentang model (miniatur) proses pemisah benda berdasarkan warna benda menggunakan kontroler berupa mikrokontroler.

Pada sistem ini benda dipisahkan berdasarkan warna benda, yaitu berwarna merah, kuning dan biru. Warna benda diperoleh dari kertas marmer warna. Proses pendeteksian warna menggunakan LDR, sedangkan untuk membawa benda menggunakan konveyor. Selector benda menggunakan penggerak motor stepper.

Dari hasil pengamatan diperoleh sistem dapat bekerja memisahkan benda berdasarkan warna benda. Sistem bekerja memisahkan benda satu per satu.

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ABSTRACT

Objects Sorting and selection are commonly found at industrial processes. This paper discussed about a model of objects sorting and objects selection process of colored object using ATMEL AT 89C51 microcontroller.

In this system, object selection based on its color: red yellow and blue object. The object color is made by colored marble paper. Detection of object color uses LDR while conveyor is used to carry an object tray bin to selected colored object tray bin. The object selector uses stepper motor as actuator.

The result is system able to sort and select the colored objects. Object selection process is done one by one object selection.