SG04: Compact Shulker Box Splitter Array

By: Basil, Kizu
Tags: splitting

Features

- Compact design. 20x17x7

- Seperate output for unstackable items.

- Fully hopperlocked.

- Filter itemless. (kissing hoppers)

- Pausable. Will only break sorted boxes if running.

- Automatic refill of empty boxes.

- Will ensure empty boxes are present before starting and will pause if empty boxes run out.

Applications

- Splitting mixed item shulker boxes for dynamic sorting systems.

Figure 1: Compact Shulker Box Splitter Array

General Description

The SG04 is a compact shulker box splitter array that can split mixed item shulker boxes into smaller boxes of the same type. The design uses the hopper dueling mechanism for a "filter itemless" setup. It uses a global clock to allow for it to be paused during operation. Note: It is not empty box input proof. Inspired by Obi's design.
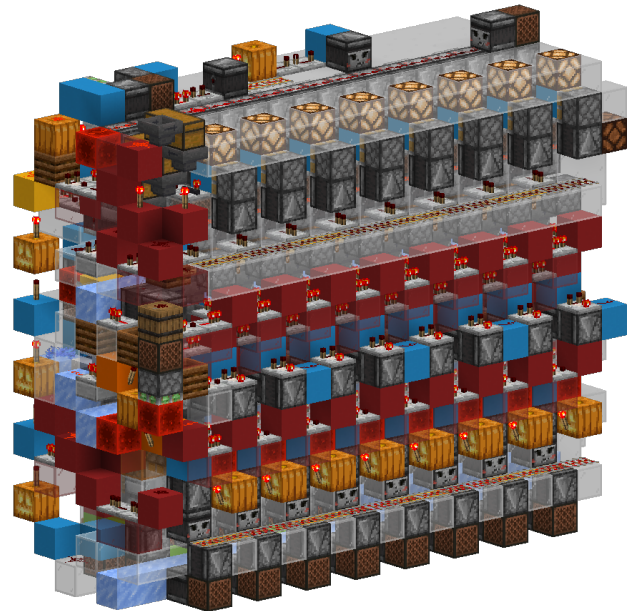
Device Specifications

Table 1: Inputs

Name	Range	Description
Mixed boxes input	Box	Boxes to split. Boxes can contain any items.
Empty boxes input	Box	Empty boxes for loading. (waterstream)
Start processing	Pulse	Starts processing mixed boxes.
Pause	0-1	Pauses the device.

Table 2: Outputs

Name	Range	Description
Split boxes output	Box	Boxes with same item types only
Unstackables output	Item	Unstackable items
Empty boxes output	Box	Empty boxes from unloading

Table 3: Device Specifications

Parameter	Min.	Typ.	Max.	Unit	Conditions
MC Version	1.16	1.21.4	-	MCV	Latest version at time of writing: 1.21.4
Dimensions		20 x 17 x 7		Blocks	

Testing Data

Table 4: Executed Tests

Test	Result
Splitting test	Device was able to split mixed boxes correctly.

Download Information

Table 5: Download Information

Identifier	MC	File	Description
SG04	1.21.4	SG04_Compact_Shulker_Box_Splitter_Array.litematic	Schematic of device.

Related Components

Table 6: Related Components

Identifier	Description
SG02	Global Clock Shulker Box Splitter