Soontech Annals

MG02: Minimum Hopper Box Merger

By: Floppydonkey
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Features

- Uses only 3 hoppers per slice, the minimum required for a shulker box merger

- Fully hopperlocked

- Compact. 8x10x23 volume

- Includes 8 merger slices to merge multiple boxes simultaneously

Applications

- Merging partial boxes in a dynamic sorting system

General Description

The MG02 Minimum Hopper Box Merger is a device that can two partial shulker boxes into a full shulker box. The device is fully hopperlocked and uses the minimum number of hoppers required for a shulker box merger. Box comparison device for determining which box should be loaded/unloaded is not included.
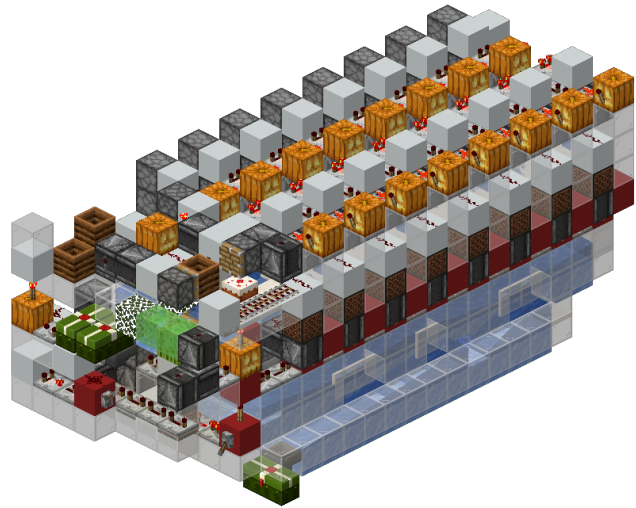

Figure 1: Minimum Hopper Box Merger

Device Specifications

Table 1: Inputs

Name	Range	Description
Loading input	Box	Partial box to be loaded during merging (right chest).
Unloading input	Box	Partial box to be unloaded during merging (left chest).
Hopperlocking input	0-1	Controls hopperlocking.

Table 2: Outputs

Name	Range	Description
Output boxes	Box	Merged shulker box output.

Table 3: Device Specifications

Parameter	Min.	Typ.	Max.	Unit	Conditions
MC Version	1.16	1.17.1	-	MCV	Latest version at time of writing: 1.21.4
Dimensions		8 x 10 x 23		Blocks	

Testing Data

Table 4: Executed Tests

Test	Result
Merging test	Device was able to merge multiple boxes simultaneously.

Download Information

Table 5: Download Information

Identifier	MC	File	Description
MG02	1.17.1	[MG02_Minimum_Hopper_Box_Merger.litematic](#)	Schematic of device.