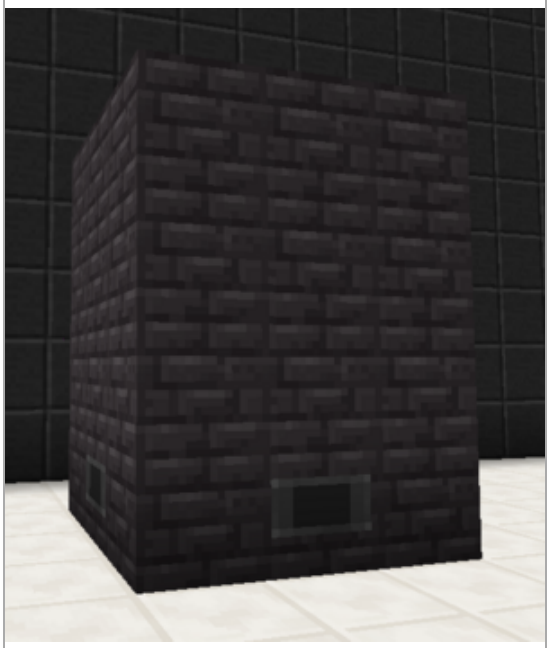
GT New Horizons

Advanced Coke Oven

The **Advanced Coke Oven** (ACO) is an MV tier multiblock and a direct upgrade to the basic Coke Oven. Unlike its predecessor, the ACO uses burnable fuel similar to a regular furnace and does NOT produce creosote oil. However, it turns logs into charcoal in just 20 ticks (1 second) which is 90x faster than the basic coke oven. Even the Pyrolyse Oven cannot produce charcoal as fast in the early game.

Advanced Coke Oven	
	
Mod	Railcraft
Type	Tile Entity
Relevant Quest	High-Speed Charcoal
Tier	MV
Size	3x3x4 (LxWxH)
Pollution	none

Construction

The ACO does not have a controller or any hatches--it consists of only a single type of block. The Multiblock Structure Hologram Projector will not show/build the structure for the player, but it is very easy to build. Simply place the 34 blocks in a 3x3x4 (LxWxH) hollow rectangle as shown in the image above.

Crafting the ACO requires a total of 68 basic coke oven bricks, 68 nether bricks, 136k (L) Oxygen Gas, and 17k (L) IC2 Coolant. There are also two steps in the Electric Blast Furnace which costs a significant amount of power in the early game.

Requires:

- 34 Advanced Coke Oven Brick

Wallsharing

As a Railcraft multiblock, the ACO cannot wallshare any part of its structure and must be at least one block apart from other ACOs to form properly.

Usage

Item **inputs** can be inserted directly from any side, but there is no auto-pull from nearby inventories. Similarly, item **outputs** can be extracted from any side, but there is no auto-push to nearby inventories. Try using item conduits or item pipes (with conveyor modules) to both insert logs and extract charcoal. It is highly recommended to prioritize the output back into the ACO to automatically refuel the machine.

The ACO can also turn coal into coal coke, sugar charcoal into sugar coke, and cactus charcoal in cactus coke. The rate is the same for all recipes, or 20 ticks (1 second).

Charcoal Rate Comparison

The Pyrolyse Oven is another option for turning logs into charcoal in the early game. To help the player decide between the ACO and the Pyrolyse Oven, the following table compares their **average ticks per charcoal** for various recipes, coils, and overclocks. The cells highlighted in green mean the ACO is faster than the Pyrolyse Oven and the cells highlighted in red mean the ACO is slower. Note that it may be more practical to use the ACO even where it is slower because it does not consume any EU.

Overclocks		Cupronickel Coils & No Fluid	Kanthal Coils & No Fluid	Nichrome Coils & No Fluid		Cupronickel Coils & Nitrogen	Kanthal Coils & Nitrogen	Nichrome Coils & Nitrogen
0 (MV)		64.0 Ticks	32.0 Ticks	20.3 Ticks		32.0 Ticks	16.0 Ticks	10.6 Ticks
1 (HV)		32.0 Ticks	16.0 Ticks	10.6 Ticks		16.0 Ticks	8.0 Ticks	5.3 Ticks
2 (EV)		16.0 Ticks	8.0 Ticks	5.3 Ticks		8.0 Ticks	4.0 Ticks	2.6 Ticks