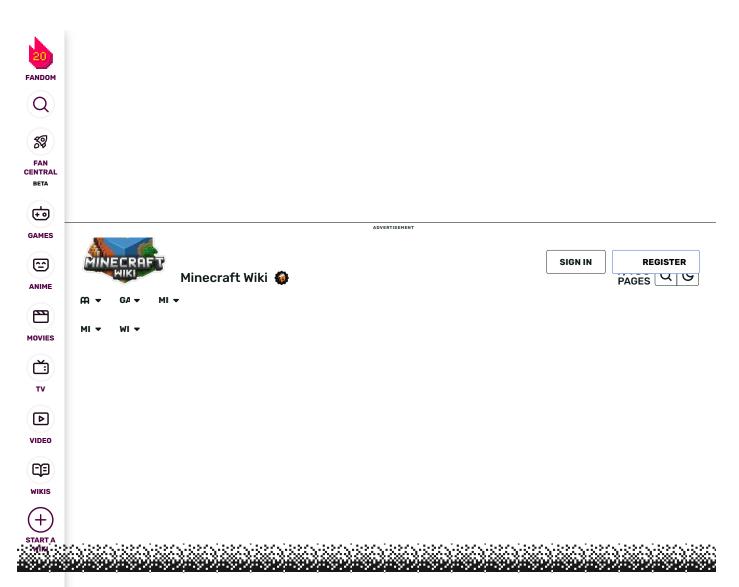
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quickly as a furnace but cannot smelt anything else. It also serves as an armorer's job site block.



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6.2. Screenshots
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# **Obtaining**

# **Breaking**

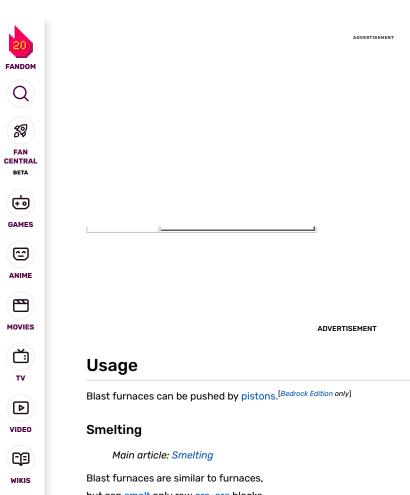
A blast furnace can be picked up using any pickaxe. If mined without a pickaxe, it does not drop.

Blast furnaces drop their contents when broken.

Block	Blast Furnace		
Hardness	3.5		
Tool			
Break	ing time <sup>[A]</sup>		
Default	17.5		
Wooden	2.65		
Stone	1.35		
Iron	0.9		
Diamond	0.7		
Netherite	0.6		
Golden	0.45		

 Times are for unenchanted tools as wielded by players with no status effects, measured in seconds. For more information, see Breaking § Speed.





Blast furnaces are similar to furnaces, but can smelt only raw ore, ore blocks and tools/armor made of iron, gold or chainmail. Blast furnaces serve as the counterpart to smokers, which are used mainly to cook food faster. Smelting equipment yields one iron or gold nugget from their respective materials. Once an item and a fuel are placed into

The GUI for the blast furnace, same as the ordinary furnace's.

the blast furnace, the block state changes to lit and the item is smelted twice as fast as a regular furnace. Fuel is also used at double the rate of regular furnaces, so the number of items smelted per fuel stays the same. The product can then be collected by using the output. Like normal furnaces, a hopper can be used to feed items into a blast furnace and can also pick up items from it.

#### Changing profession

If a village has a blast furnace that has not been claimed by a villager, any nearby villager who has not chosen a job site block has a chance to change their profession to armorer.

### **Light source**

Blast furnaces emit a light level of 13 when active, similar to normal furnaces.

## **Custom name**

By default, the interface of a blast furnace is labeled "Blast Furnace", but this name can be customized by naming it in an anvil before placing it, or by changing the CustomName tag using the /data command.[Java Edition only]

#### Lock

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drum" sounds.

Sounds

# Generic

#### Java Edition:

[Collapse] Resource Translation Pitch Subtitles Description Volume **Attenuation** Sound Source location key distance subtitles Once the block Block .block Blocks block has .stone 1.0 8.0 16 broken .generic broken .break .break subtitles block When the Block .block 1.0 8.0 16 Blocks block is .stone placed .generic placed .place .place While the subtitles block is in block Block .block Blocks the process .stone 0.25 0.5 16 breaking .generic of being .hit .hit broken Falling on block Entitythe block None[sound 1] None[sound 1] 0.5 0.75 .stone 16 Dependent with fall .fall damage subtitles block Entity-.block Walking on 0.15 1.0 Footsteps .stone 16 Dependent the block .generic .step .footsteps

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#### 1. MC-177082

#### Bedrock Edition:

Sound	Source	Description	Resource location	Volume	[Collapse] Pitch
	Blocks	Once the block has broken	dig .stone	1.0	0.8-1.0
	Blocks	When the block is placed	dig .stone	1.0	0.8-1.0
	Blocks	While the block is in the process of being broken	hit .stone	0.37	0.5

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# Unique

## Java Edition:

Sound	Subtitles	Source	Description	Resource location	Translation key	Volume	Pitch	[Collapse] Attenuation distance
	Blast furnace crackles	Blocks	Randomly while lit	<pre>block .blastfurnace .fire_crackle [sound 1]</pre>	subtitles.block .blastfurnace .fire_crackle [sound 1]	1.0	1.0	16
	Armorer works	Friendly Creatures	Randomly while an armorer is working	<pre>entity.villager .work_armorer</pre>	subtitles.entity .villager .work_armorer	1.0	0.8-1.2	16
	Chest locked <sup>[sound 2]</sup>	Blocks	When a player attempts to open a blast furnace locked using the <b>Lock</b> tag	block.chest .locked [sound 2]	subtitles.block .chest .locked [sound 2]	1.0	1.0	16

- 1. MC-179832
- 2. MC-98316 Wrong subtitles caused by missing distinction

### Bedrock Edition:

Sound	Source	Description	Resource location	Volume	[Collapse] Pitch
	Blocks	Randomly while lit	block .blastfurnace .fire_crackle	3.0	0.6
	Blocks	Randomly while an armorer is working	block .blastfurnace .fire_crackle	3.0	0.6

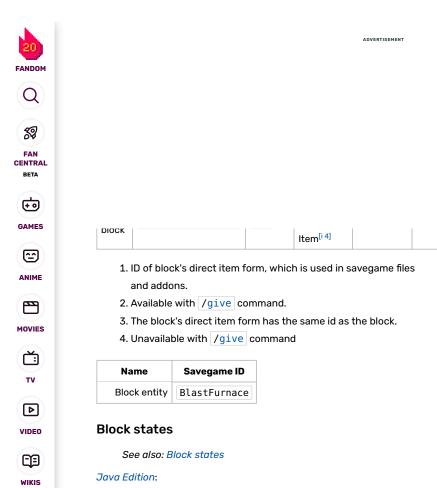
# **Data values**

## ID

### Java Edition:

Name	Identifier	Form	Translation key
Blast Furnace	blast_furnace	Block & Item	block.minecraft.blast_furnace



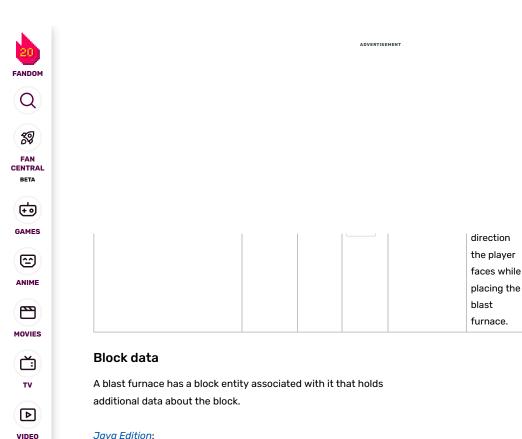


Name	Default value	Allowed values	Description	
facing	north	east north south west	The direction the blast furnace's opening faces. The opposite from the direction the player faces while placing the blast furnace.	
lit	false	false true	If the blast furnace is lit.	

### Bedrock Edition:

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Name	Metadata Bits	Default value	Allowed values	Values for Metadata Bits	Description
facing_direction (Deprecated)	0x1 0x2 0x4	3	2 3 4 5	2 3 4 5	The direction the blast furnace's opening faces.  • 2: facing north • 3: facing south • 4: facing west • 5: facing east



#### Java Edition:

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See also: Block entity format

Block entity data

#### Tags common to all block entities

BurnTime: Number of ticks left before the current fuel runs out. CookTime: Number of ticks the item has been smelting for. The item finishes smelting when this value reaches 200 (10 seconds). Is reset to 0 if BurnTime reaches 0.

CookTimeTotal: Number of ticks It takes for the item to be smelted.

CustomName: Optional. The name of this container in JSON text component, which appears in its GUI where the default name ordinarily appears.

Items: List of items in this container.

: An item in the blast furnace, including the slot tag:

Slot 0: The item(s) being smelted.

Slot 1: The item(s) to use as the next fuel source.

Slot 2: The item(s) in the result slot.

#### Tags common to all items

**Lock**: Optional. When not blank, prevents the container from being opened unless the opener is holding an item whose name matches this string.

RecipesUsed: Recipes that have been used since the last time a recipe result item was manually removed from the GUI. Used to calculate experience given to the player when taking out the resulting item.

recipe ID: How many times this specific recipe has been used. The recipe ID is the identifier of the smelting recipe, as a resource location, as used in the /recipe command.

#### Bedrock Edition:

See Bedrock Edition level format/Block entity format.

# **History**

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	18w50a	desert and taiga villages.			
	16W5Ua	Blast furnaces are now functional and craftable.			
	19w03a	Sounds have been added for blast furnaces.			
	19w11a	Blast furnaces now serve as armorer villagers' job site block.			
1.16	20w06a	Added ancient debris, which can be smelted in blast furnaces.			
1.17	21w14a	Added raw metals, which can be smelted in blast furnaces.			
1.20	23w12a	Blast furnaces now generate in trail ruins.			
		Bedrock Edition			
1.9.0	beta 1.9.0.2	Added blast furnaces.			
444	beta	A crafting recipe has been added for the blast furnace.			
1.10.0	1.10.0.3	Blast furnaces now generate in the new village armorer houses.			
1.11.0	beta 1.11.0.1	Blast furnaces are now functional.			
1.20.30	beta 1.20.30.2	Blast furnaces now use the minecraft:cardinal_direction block state instead of facing_direction.			
Legacy Console Edition					
	1.91	Added blast furnaces.			

## Lit blast furnace "item"

The following content is transcluded from Technical blocks/Lit Blast Furnace.

Bedrock Edition				
?	Lit blast furnaces exist as an item.			

# **Appearances**

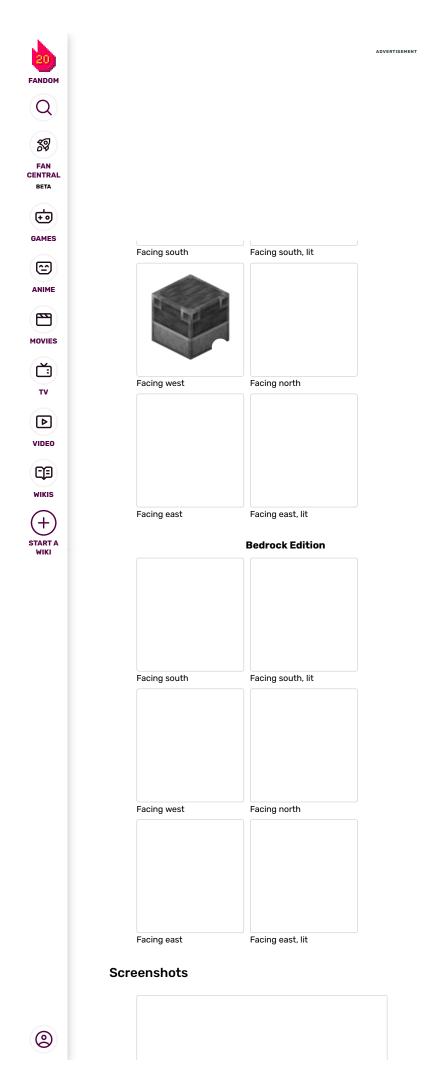
	Bedrock Edition				
?	Lit blast furnaces use this model.				

## Names

## **Bedrock Edition**

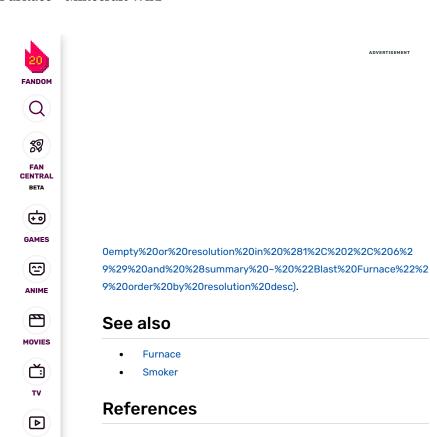
• ?-?:tile.lit\_blast\_furnace.name





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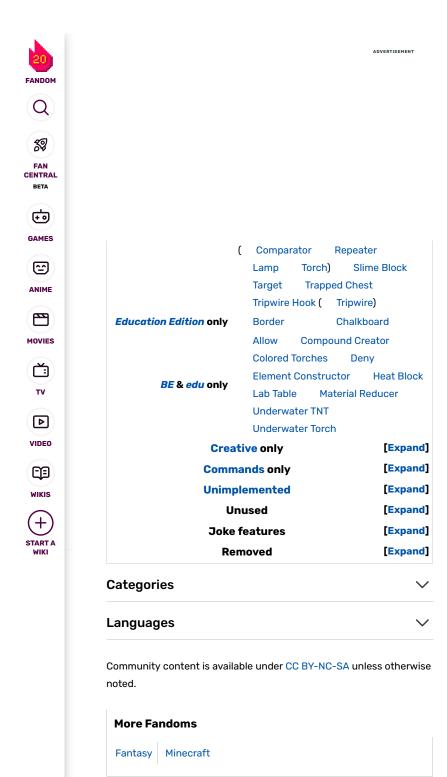
# **External Links**

• Block of the Week: Blast Furnace (https://www.minecraft.net/e n-us/article/block-week--blast-furnace) - Minecraft.net on September 10, 2020

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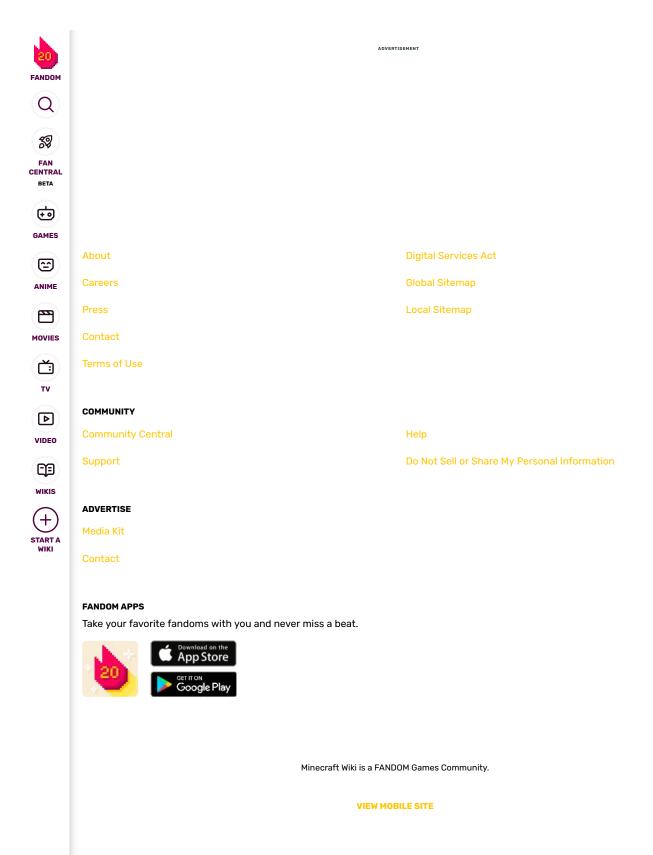
E	Blocks	[Collapse]	
Na	Natural		
E	Biota	[Expand]	
Bu	ilding	[Expand]	
Ut	tility	[Collapse]	
Interactable	Anvil ( Chipped Barrel Beacon Brewing Stand Cartography Table ( Ender) Chiseled ( Crafting Table En Fletching Table Fi ( Blast Smoker) Lectern Loom Sign ( Hanging)	Bookshelf chanting Table urnace Grindstone Shulker Box	
Utilizable	Stonecutter  Banners Beehive  Bell Cake ( with Campfire ( Soul) ( Lava Powder Snot Composter Condo End Gateway End End Portal Frame Flower Pot Froste Heads Item Fram Jukebox Ladder Monster Spawner	n Candle) Cauldron ow Water) uit d Portal Farmland ed Ice e ( Glow) Lodestone	

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