

# Single nozzle multiple extruder support

**Feature Name:** Single Nozzle Multiple Extruder Support

**Feature Name in Annotation:** SINGLENOZZLE

## Source of Information

Releaselog, pull requests, commits, ifdef with feature annotation name.

## Strategy Used:

Feature is identified from the latest release log first. The release log also provides the pull request and commits linked to the feature (see the links and tables below), Ifdefs are also used for speeding up feature location.

**Feature Release Version:** 1.1.0 – RC7

**Time took to Identify and Locate the feature:** 0.25 hour

**Time took to Understand the Implementation:** 0.3 hour

## Feature Description:

This feature implements the possibility of using multiple extruder what sits on top of one hotend. This feature has only basic support. And it is pending for further development. There is still so support for waiting on filament change or switching extruder, and squeeze out the older materials such.

## Feature Information and Statistics:

PR No.	Merged Time	PR	Commits	Files	Line Added	Line deleted
#3808	24 May 2016	SINGLENOZZLE	3	22	86	7
#3895	5 Jun 2016	SINGLENOZZLE: EXTRUDERS versus HOTENDS	2	50	558	458

## Ratios of sources (%)

RL	PR	CM	Ifdef	DK	CC	SC	GD
50	35	10	5	0	0	0	0

**RL:** Release Log; **PR:** Pull Request; **CM:** Commit, **Ifdef:** Ifdef Expression; **DK:** Domain Knowledge; **CC:** Code Comment; **SC:** Source Code; **GD:** G-Code Documentation.

**Pull Request Links:**

<https://github.com/MarlinFirmware/Marlin/pull/3808>

<https://github.com/MarlinFirmware/Marlin/pull/3895>

**Feature Characteristics:**

Feature Name	LoFC	SD	TD	Completely Wrapped by ifdef
Single Nozzle Multiple Extruder Support	18	5	0	No

**Feature's Relevant Historical Data**

Related requests and earlier PRs:

Cyclops hotend: <https://github.com/MarlinFirmware/Marlin/issues/3795>

<https://github.com/MarlinFirmware/Marlin/issues/3401>

<https://github.com/MarlinFirmware/Marlin/issues/3266>

<https://github.com/MarlinFirmware/Marlin/pull/2540>

<https://github.com/MarlinFirmware/Marlin/pull/1686>

<https://github.com/MarlinFirmware/Marlin/pull/1676>

<https://github.com/MarlinFirmware/Marlin/pull/1624>

<https://github.com/MarlinFirmware/Marlin/issues/1613>

<https://github.com/MarlinFirmware/Marlin/pull/964>