

Distinguish, differentiate, compare and explain what is the Difference between Jig and Fixture. Comparison and Differences.

The main construction difference between a jig and a fixture is mass. Because of the increased tool forces, fixtures are built stronger and heavier than a jig would be for the same part. They are made basically the same way as far as locators and positioners are concerned.

Differences between Jig and Fixture

S.No.	Jig	Fixture
1	A jig holds, locates as well as guide the tool.	A fixture holds and position the work but does not guide the tool.
2	Jigs are lighter in weight.	Fixtures are heavier in construction.
3	Clamping the jig with work table is not required.	Fixtures are bolted rigidly with the work table.
4	Jigs are used for holding the work and guiding the tool in drilling, reaming or tapping.	Fixtures are used to holding the work in milling, grinding, planning operations.
5	Jigs come in direct contact with the cutting tool.	Fixtures never come in contact with the cutting tool.
6	Drill bushes used for tool guiding.	Feeler gauges, setting blocks to adjust position of tool in relation to work.