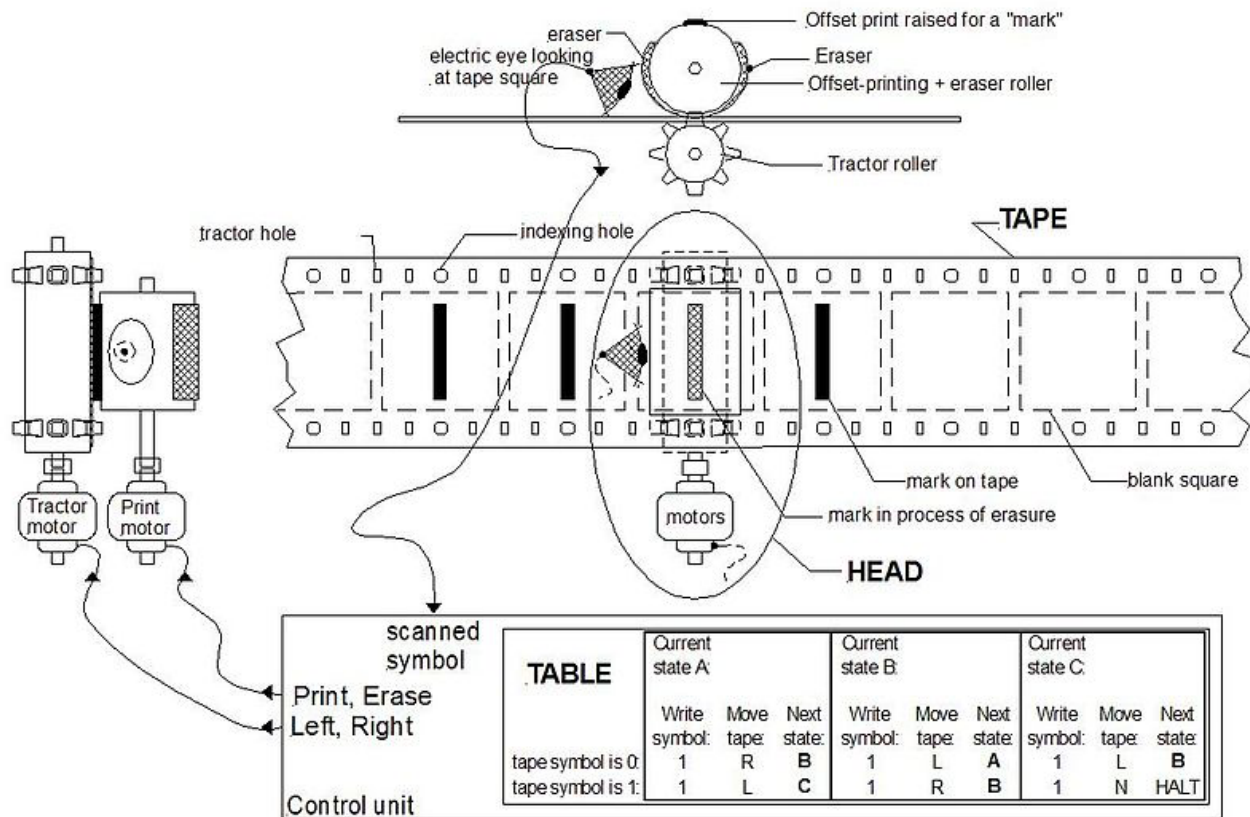


A **Turing machine** is a **mathematical model of computation** that defines an **abstract machine**,<sup>[1]</sup> which manipulates symbols on a strip of tape according to a table of rules.<sup>[2]</sup> Despite the model's simplicity, given any **computer algorithm**, a Turing machine capable of simulating that algorithm's logic can be constructed.<sup>[3]</sup>

Wikipedia contributors. "Turing machine." *Wikipedia, The Free Encyclopedia*. Wikipedia, The Free Encyclopedia, 8 Jan. 2020. Web. 20 Jan. 2020.



A fanciful mechanical Turing machine's TAPE and HEAD. The TABLE instructions might be on another "read only" tape, or perhaps on punch-cards. Usually a "finite state machine" is the model for the TABLE.