

Unleashing the Power of Digital Manufacturing in Today's Industry!

Digital Manufacturing uses digital technologies to optimize manufacturing operations, creating a well-connected, fully integrated, and networked environment. It enables manufacturers to capture and also analyses real-time data, optimizes plant processes, and increases productivity. Implementing Digital Manufacturing helps improve output quality, reduce inventory, eliminate bottlenecks, reduce time to market, increase product portfolio and volumes, also deliver rapidly to customer needs, and much more. The demand for complex tailor-made solutions delivered quickly and the exiting of the skilled workforce puts companies into dire straits. Companies are now harnessing Industry 4.0 practices to their advantage to remain competitive.

Digital Manufacturing includes using predictive efficiency and predictive maintenance to prevent expensive bottlenecks and breakdowns, making the entire production line more prolific, real-time monitoring and tracking of the assets within the plant, reducing the use of raw materials and labour, adjusting production to cater to changing consumer needs, and including a continuous flow of materials by using smart conveyance. Digital Manufacturing is becoming the most coveted solution for the Manufacturing Industry, especially for moderate-sized companies, as it is becoming more accessible than ever.

Digital Manufacturing is becoming more prevalent in the manufacturing industry because it helps improve production output, factory capacity utilization, and labour productivity while reducing operational effort, time, waste, and costs. According to a report by Deloitte, investments in digital plants increase production output by 10%, factory capacity utilization by 11%, and labour productivity by 12%.

By 2030, with the use of Digital Manufacturing, labour productivity is expected to triple. Despite hardware challenges due to vendor lock-ins providing a fixed set of features, start-ups such as [Solulever](#) provide digital manufacturing solutions such as [Brabo](#), a platform of platforms that help manufacturers collect real-time operational data, normalize the data, run analytics on top of it, and make it readily available for development teams.