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Steps to Manufacturer Market-Readiness with Z Desktop Workstations

The exit of large MNCs from India in recent years, coupled with a promising \$21.34 billion growth in foreign direct investment (FDI) in Indian manufacturing¹, has unlocked golden opportunities for the country's SMB manufacturers. To capitalize on these, manufacturers need to improve process efficiency and meet customized demand with emerging technologies backed by high-computational power devices.

Here are **4 key ways** in which Z by HP's Desktop Workstations enable manufacturing business owners to achieve these goals and seize new market opportunities.

01

Faster product refreshes & upgrades



Challenges

How to **stay agile and pivot to demand for newer products** in the face of rapidly evolving customer needs?

Solution

Rapid prototyping and in-progress design amendments with 3D printing, instilling confidence to invest in large-scale production.

Z Desktop Workstations enable...

3D printing technologies that allow for creation, testing, and iterating of new products in hours instead of days, giving manufacturers the agility to meet supply as per changing customer needs.

Packed with massive memory, Intel® Xeon® 16-core processors, and high-end NVIDIA RTX™ professional graphics, Z Desktop Workstations **accelerate product development workflows and shorten manufacturers' time to market.**



02

Capturing niche markets profitably



Challenges

How to **cater to growing demand for product customization** at no additional cost?

Solution

Small-batch additive manufacturing which enables limited-run and made-to-order product lines, eliminating the need for expensive molds and increasing market agility for custom products.

Z Desktop Workstations enable...

Demanding additive manufacturing workflows that require high-performance technology optimized for software applications like Creo Additive Manufacturing Extension, NX, and CATIA.

Z Desktop Workstations **accelerate 3D printing workflows with high-frequency processing power, enabling manufacturers to swiftly capitalize on demand spikes for niche products.**



03

Reducing process inefficiencies



Challenges

How to **ensure long-term success by optimizing production processes** and energy efficiency in addition to productivity?

Solution

Data analytics that identify areas for process improvement such as asset under-utilization and workload imbalance for employees and machines, and enable predictive maintenance that reduces downtime caused by unforeseen machine failures.

Z Desktop Workstations enable...

Capture and analysis of a wide range of data that can be used to optimize asset utilization, improve workload distribution, and inform real-time maintenance.

Designed to get rapid results from the most demanding datasets, Z Desktop Workstations **enable manufacturers to train data models, create data visualizations, and uncover process insights that pre-empt and eliminate inefficiencies on the factory floor.**



04

Innovating beyond traditional designs



Challenges

How to **bring complex and innovative product designs to life** easily and cost-effectively?

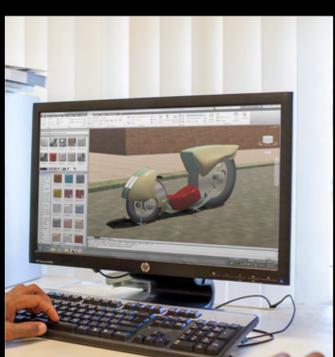
Solution

Delivering computing horsepower to product designers anywhere, anytime, to enable incorporation of technologies such as generative design, 3D printing, and VR that streamline complex product design anywhere, anytime.

Z Desktop Workstations enable...

Provision of on-demand computing power through ZCentral Remote Boost, which allows product designers, developers, and VR specialists to remotely access a racked workstation from an endpoint device of their choice, anywhere.

Z Desktop Workstations' high-performance computing power **creates a seamless experience in delivering innovative product designs, from prototyping to realization, wherever designers are based.**



With work from anywhere now a business reality, manufacturers need to empower product design and development teams across multiple locations to capture opportunities as and where they arise.

Z Desktop Workstations deliver:



The flexibility to upgrade and diversify product lines on demand



The insights to maximize uptime and process efficiencies through predictive maintenance



The freedom to fuel innovative product designs that stand out from the competition



HP Z4 G4 Tower

Processor: Intel Core i9 10900X 3.7GHz 2933MHz
Memory: 192GB
Storage: 2TB Z Turbo M.2
Graphics: NVIDIA RTX A6000
Operating System: Windows 11 Pro or Windows 10 Pro



HP Z6

Processor: 2x Intel XeonGold 6246 3.3 - 4.2GHz 12 core
Memory: 96GB
Storage: 512GB SSD + 1TB M.2 + 4TB SATA
Graphics: NVIDIA® RTX™ A5000
Operating System: Windows 11 Pro or Windows 10 Pro

Adapt to the heaviest computing workloads and thrive in the new manufacturing landscape today with Z Desktop Workstations.

Remove barriers to brilliance with Z Desktop Workstations

[EXPLORE NOW](#)



Exceptional performance with Intel® Xeon® and Intel® Core™ i9



Sources:
1. Why India isn't a global manufacturing hub : : Forbes India