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Indonesia boosts medtech industry by launching seven new technologies

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A significant step forward for the development for Indonesia's MedTech sector



Sepuluh Nopember Institute of Technology (ITS), a leading university in Indonesia, with PT Tekno Sains Medika and PT Bina Makmur Abadi, has developed seven medical devices using integrated digital technologies, in a significant boost to the country's nascent medtech industry.

The seven devices used integrated 3D design and digital fabrication technology. Through fabrication technology, products can be customised and made based on consumer request. "It is expected that the use of this technology can help speed up the handling of medical cases", said Djoko Kuswanto, ITS lecturer and medical equipment inventor.

The new products include AMO3D, a 3D-printed implant mold based on patient data; GUO3D, a 3D-printed work support tool; and PRO3D, a 3D-printed body protective device made using patient-specific scans. These tools are the only ones in Indonesia that combine innovation and digital technology for use in healthcare settings.

ITS has also created products called HUMA3D in the form of a mannequin, and TSM.Bones, a replica of human bones for educational purposes and clinical training for aspiring medical professionals.

The final products are RiseHand, a tool that assists patients with amputated fingers in grasping objects, and Surgical Instrument, a range of tools for surgical operations, including scissors, knives, and tweezers.

These medtech products, which were recently launched at the 35th Hospital Expo, Jakarta Convention Center, are being used by several hospitals and universities in Indonesia, and hundreds of units of the devices have been ordered.