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Advancements in prosthetic technology have made incredible strides over the past few decades, transforming the lives of individuals who have experienced limb loss. Prosthetics, once basic

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One of the greatest challenges with prosthetics is ensuring a comfortable, individualized t. As technology improves, customization options for prosthetic limbs are becoming more accessible and e cient:

3D : 3D printing technology has revolutionized the way prosthetics are designed and fabricated. With 3D scanning, prosthetists can create personalized prosthetic limbs that match the unique shape and size of the amputee's residual limb. is approach ensures a better t, greater comfort, and improved performance. Additionally, 3D-printed prosthetics can be produced more quickly and at a lower cost compared to traditional manufacturing methods.

C : Innovations in prosthetic design also allow for greater customization in terms of appearance. Amputees can choose the shape, color, and texture of their prosthetic limb to match their personal preferences and style. Some even opt for highly aesthetic, lifelike prosthetics, while others may prefer a more functional, minimalist design [6].

: Many prosthetic devices are now embedded with smart technology that allows for real-time data collection and analysis. ese devices can monitor performance, adjust settings based on the wearer's needs, and provide valuable feedback to both the amputee and their healthcare provider. is level of customization and adaptability enhances both the functional and psychological aspects of prosthetic use.

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e advancements in prosthetic technology have opened up new possibilities for amputees, o ering enhanced mobility, improved functionality, and greater independence. Innovations such as bionic limbs, advanced materials, sensory feedback systems, and 3D-printed prosthetics are transforming the rehabilitation process, allowing amputees to lead more active and ful lling lives. As technology continues to evolve, the future of prosthetics holds even greater promise, with developments in brain-computer interfaces and fully integrated systems bringing us closer to the goal of restoring natural limb function. With these advancements, amputees now have access to a world of possibilities, enabling them to regain control of their lives and participate in activities that were once unimaginable.

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