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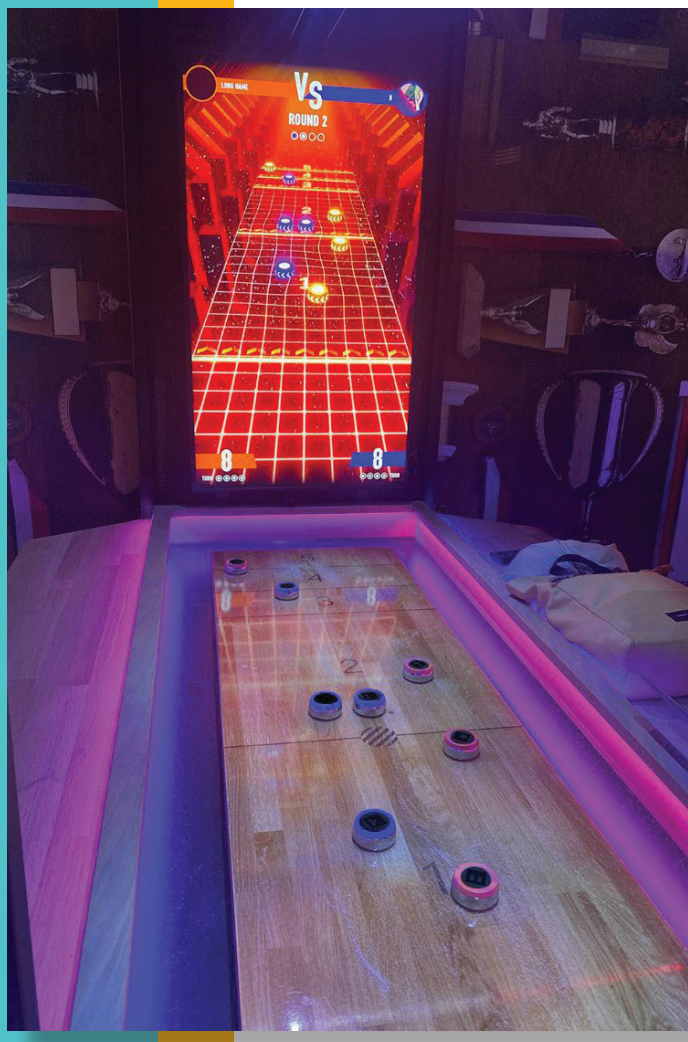

CASE STUDY

Rapid Manufacturing of Heavy-Use Durable Consumer Parts

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Additive Manufacturing Technologies (AMT), a leading manufacturer of automated post-processing systems, has harnessed its PostPro SF chemical vapor smoothing technology to enhance the surface quality, user experience, and longevity of 3D-printed consumer products, specifically prosthetics.

Client Background:
Conductr, a leader in digital gaming technology, embarked on a project to enhance their digital shuffleboard game. They aimed to create customizable puck tops that not only added a personal touch for end consumers but also facilitated tracking for the game's digital aspects.

PrintCity is an innovative hub for 3D additive and digital manufacturing, situated at Manchester Metropolitan University. Their facility houses a diverse team of manufacturing experts, designers, and engineers, enabling collaborative partnerships with businesses of all sizes to transform ambitious concepts into tangible solutions.

The Challenge:
Conductr faced a tight deadline, requiring 80 specialized puck tops within weeks. Conventional manufacturing methods were too time-consuming and risked delaying the delivery date. Moreover, Conductr had specific colour pattern requirements that necessitated additional processes. Given potential future product refinements, they were hesitant to commit to injection moulding and while they had 3D printing capabilities in-house, achieving the desired high-quality finish proved challenging.

The Solution:
Conductr turned to PrintCity, seeking a solution to their time-sensitive and quality-demanding project. PrintCity's expertise in additive manufacturing, particularly with HP MJF and AMT PostPro technologies, proved instrumental.

PrintCity leveraged their 3D printing capabilities and utilized AMT's PostPro SF50 for post-processing, ensuring a smooth and refined finish. This integrated approach allowed them to produce the custom puck tops promptly. Within just one week of receiving the digital 3D models, PrintCity delivered the finished products.

Outcome:
PrintCity's swift and efficient execution enabled Conductr to meet their strict deadline successfully. The puck tops not only met but exceeded the required quality standards, ensuring a polished presentation to their end clients. This collaboration between Conductr and PrintCity showcased the potential of AMT PostPro technology in accelerating product development and production timelines without compromising on design and maintaining exceptional product quality.

In conclusion, Conductr's partnership with PrintCity demonstrated the power of additive manufacturing, enabled by AMT's post-processing technologies, in meeting challenging deadlines and delivering world-leading, customized products for their digital shuffleboard game.

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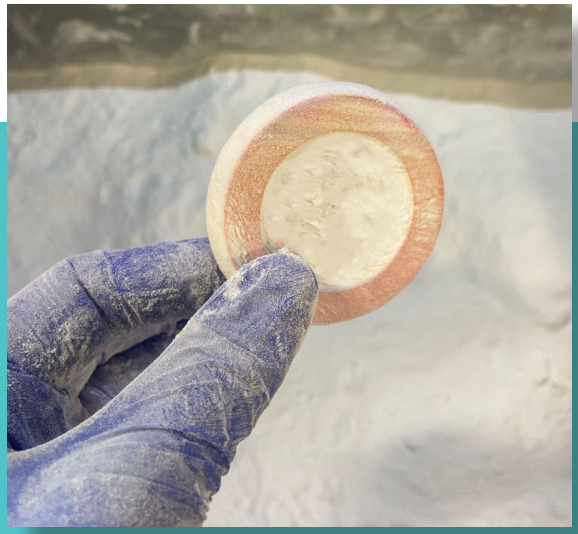

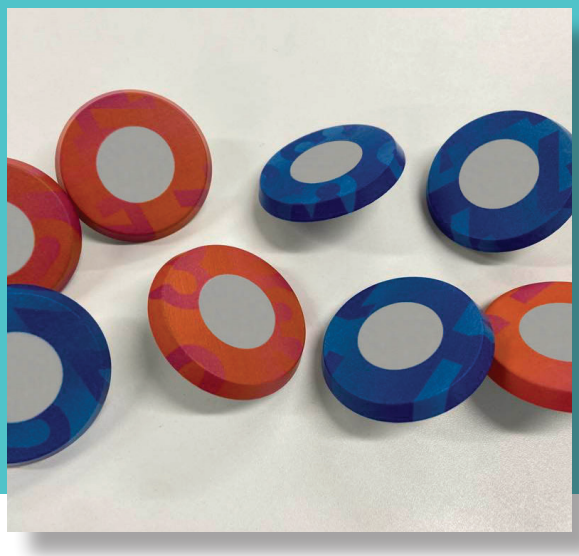

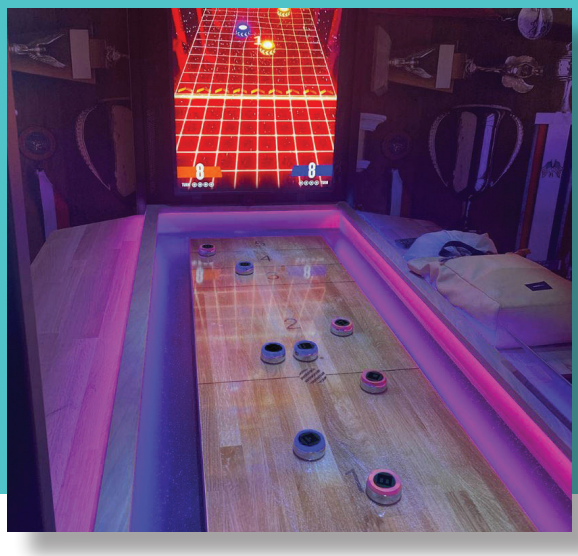

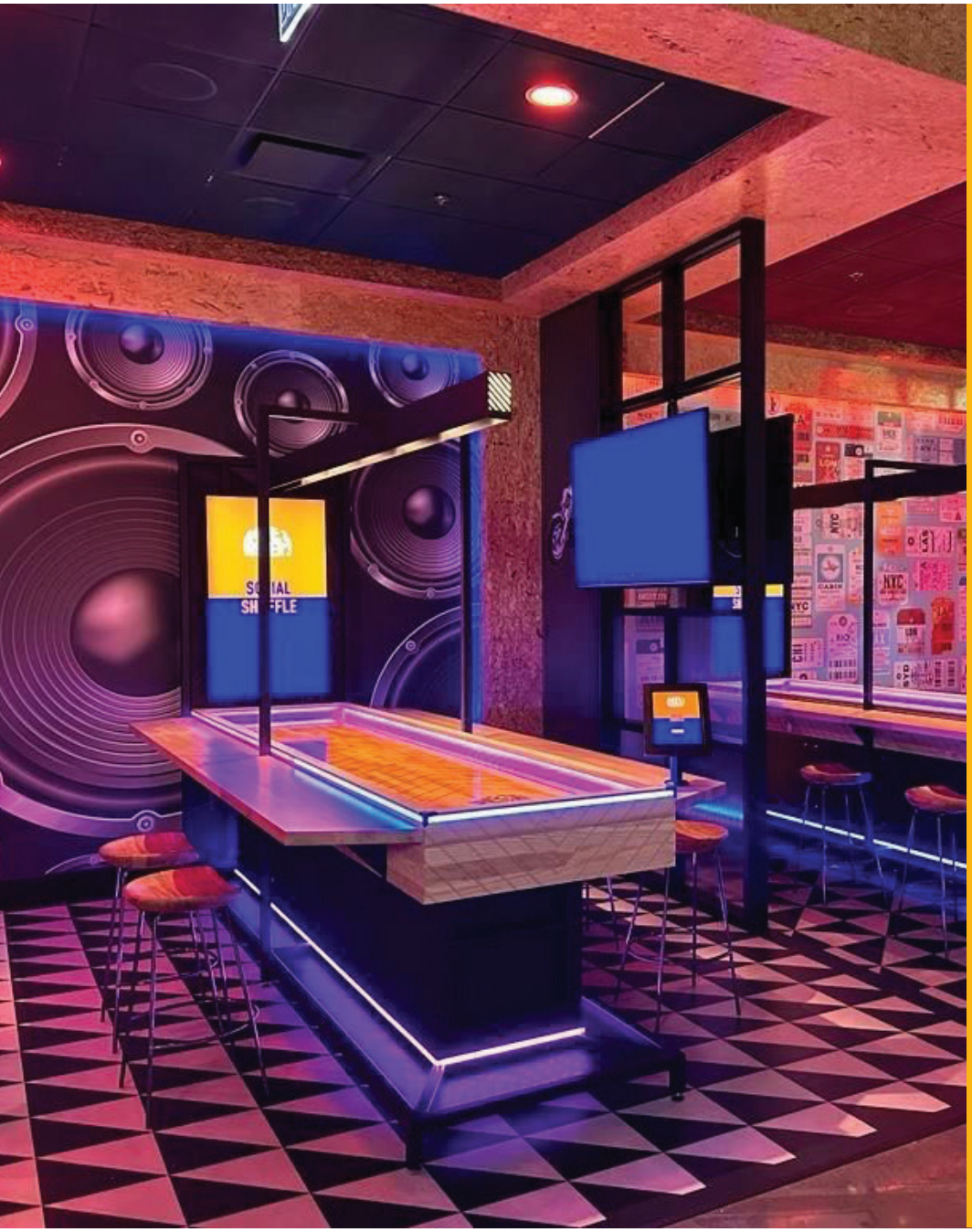

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