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Europe Veterinary 3D Printing Market Size, Share & Trends Analysis Report By Product (Implants, Masks), By Animal (Dogs, Cats), By Application (Orthopedics, Surgical Planning), By Material (Metals, Ceramics), By End-use, By Country, And Segment Forecasts, 2025 - 2030

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Abstracts

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Europe Veterinary 3D Printing Market Growth & Trends

The Europe veterinary 3D printing market size is anticipated treach USD 73.9 million by 2030, registering a CAGR of 10.2% from 2025 t2030, according ta new report by Grand View Research, Inc. One of the most dynamic emerging factors affecting the market is the emerging usage of 3D printing in developing veterinary drugs. Although still in the research stage, the application of this technology is being actively studied by many researchers worldwide.

According tan article in Pharma Excipients, 3D printing is being explored tcreate tailored veterinary drugs, addressing the limitations of traditional one-size-fits-all medications for animals. A joint-collaboration between researchers from around the globe, a research study is focusing on developing a once-daily, dual-release tablet for cats and dogs using semi-solid extrusion (SSE) 3D printing, specifically for Metoclopramide (MCP), a common anti-nausea drug. The dual-release system aims tprovide both rapid onset and sustained action, reducing the frequency of administration needed due tMCP's short half-life. They successfully created different-sized tablets with tailored doses, demonstrating a strong correlation between the design and drug amount. These tablets

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contained cellulosic polymers tcontrol drug release, with dissolution studies showing the impact of polymer combinations and tablet surface area on release profiles.

SSE 3D printing allows for precise dosing and customization of release profiles by altering tablet structures and geometries. The technology is suitable for thermo-sensitive ingredients and minimizes contamination risk compared ttraditional methods. Including liver powder in the immediate-release formulation enhances palatability, making the tablets more pet-friendly. This approach offers the potential trevolutionize veterinary medicine by providing customized treatments, improving patient compliance, and optimizing treatment outcomes. The study highlights the practical use of SSE 3D printing in developing precise and pet-friendly tailored tablets, offering enhanced treatment options for small animals close tthe point of care.

The use of 3D printing in veterinary medicine has the potential tenable precision in drug formulations and address the unique needs of each animal, overcoming the limitations of standardized medications. It has the potential tprovide on-demand production of customized dosages close tthe point of care, improving treatment accuracy and reducing preparation errors. Integrating innovative drug delivery systems like dual-release tablets can optimize therapeutic outcomes while minimizing dosing frequency. 3D printing can revolutionize veterinary pharmacology by providing flexible, efficient, and patient-specific solutions.

Europe Veterinary 3D Printing Market Report Highlights

Based on product, the implants segment held the highest market share of 31.96% in 2024. This segment includes 3D-printed veterinary implants such as TPLO and TPLA, which are increasingly popular due ttheir ability tbe customized for diverse animal anatomies, improving surgical precision and outcomes.

The other animal segment, encompassing animals such as horses, turtles, birds, and livestock, is expected tgrow at a CAGR exceeding 12% during the forecast period. This rapid expansion is driven by the increasing use of 3D printing ttreat various conditions and the emergence of specialized companies that develop 3D-printed products tailored tspecific species.

Based on application, the surgical planning segment is projected

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texperience the fastest CAGR during the forecast period, due tthe benefits of 3D printing. This technology allows for creating patient-specific anatomical models, enhances the visualization of complex structures, and enables customized surgical instruments and guides. Veterinarians can thoroughly study fractures or deformities, pre-contour implants, and rehearse surgical steps, reducing complications and improving outcomes.

The UK held the largest market share of more than 24% in 2024. The country's dominance can be attributed tfactors such as the active involvement of veterinary practices in utilizing 3D printing technology thelp resolve animal health problems and researchers fostering an innovative spirit thelp improve upon the existing products.

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CHAPTER 10. COMPETITIVE LANDSCAPE

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