



**Press Office Manager
Veronica Negrelli**

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January 2024



TECNELAB

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HOME > NEWS > ATTUALITÀ

I compositi Windform di CRP Technology nella pellicola di Michael Mann, Ferrari

15/01/2024 1371014/e

Condividi Articolo



A sinistra: visiera stampata nel materiale composito caricato fibra di vetro Windform GT per casco pilota, test di assemblaggio; a destra: casco assemblato, sulla scena, indossato da un attore e manichino. ©Courtesy Prop On-Set Team

Immersa nel cuore di Modena, città intrisa di tradizione ed eccellenza automobilistica, l'entusiasmata saga di Enzo Ferrari prende di nuovo vita nell'ultimo film dell'eccentrico e innovativo regista e produttore Michael Mann.

La pellicola che, dopo Venezia 80 e la candidatura ai Gotham Independent Film Awards 2023, è arrivata nelle sale italiane lo scorso 14 dicembre, è tratta dalla biografia del 1991 "Enzo Ferrari: l'uomo e la macchina" di Brock Yates, ed esplora il profondo impatto di Enzo Ferrari nei campi dell'ingegneria automobilistica e della storia del motorsport, narrando gli eventi accaduti nella Mille Miglia del 1957.

CRP Technology, azienda high-tech di Modena conosciuta in tutto il mondo per gli avanzamenti tecnologici nel campo dei materiali compositi per stampa 3D e sinterizzazione laser selettiva, ha collaborato al film di Michael Mann realizzando e consegnando rapidamente oggetti di scena stampati in 3D, dimostrando una notevole efficienza in tempi record.

Radicata nella Motor Valley italiana, CRP Technology condivide con la Ferrari luogo di fondazione e sede, aggiungendo un significato unico a questa collaborazione cinematografica.

Una collaborazione "cinematografica"

Applicando le tecniche più all'avanguardia dell'Additive Manufacturing e impiegando i suoi materiali compositi Windform, noti nel settore del motorsport, CRP Technology ha contribuito in modo significativo alla creazione di componenti funzionali, alcuni dei quali hanno rivestito un ruolo importante nello svolgimento della storia raccontata nel film.

Questi componenti sono stati commissionati a CRP Technology mentre la troupe stava girando a Modena, per essere utilizzati immediatamente durante le riprese sia in città che nel nord Italia.

Grazie al suo personale qualificato e all'esperienza maturata al fianco di imprese leader nell'industria avanzata, CRP Technology è riuscita a fornire le parti richieste in breve tempo, garantendo così il rispetto del rigoroso programma di riprese.

I componenti realizzati da CRP Technology sono visiere per caschi e motorini di avviamento, ma anche

IL FATTO



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3D Printing Industry



Securing the circular material supply chain

The sustainability of material supply is a growing concern for those leveraging additive manufacturing.

Users are looking to minimize their carbon footprint and alleviate supply chain challenges. To meet this demand, material manufacturers are producing recycled 3D printing materials for a range of applications. In a Life Cycle Analysis (LCA) published in 2023, [KIMYA](#) reported that [recycled PETG filaments](#) can reduce CO2 emissions by up to 35%.

In July 2023, 3D printing materials and services provider [CRP Technology](#) launched its 100% recycled [Windform XT 2.0 IMG](#) (Injection Molding Grade) 3D printing material. This high-performance material boasts a composite structure with a thermoplastic matrix, PA12 base, and enhanced carbon fiber reinforcements. This material is produced from depleted Windform powders without including any virgin additives.



K ZEITUNG



TECHNIK Di., 16.01.2024 - 08:22

US-Bobs mit 3D-gedruckten Teilen

Maßgeschneiderte 3D-gedruckte Bauteile aus Verbundwerkstoffen sollen die Leistungsfähigkeit der Rennbobs vom Team USA verbessern



© StockAdobe.com

Tests in realen Bobrennen haben bewiesen, dass 3D-gedruckte Bauteile auch den extremen Belastungen des Bobsports standhalten.

Der 3D-Druck von Teilen eines professionellen Rennbobs gehört zu den neuesten und anspruchsvollsten Beispielen für die erfolgreiche Kombination von Additiver Fertigung und Wintersport. Schließlich zählt der Bobsport aufgrund der hohen Geschwindigkeiten und Belastungen zu den spektakulärsten Wintersportarten.

Ein Schlüsselement, das über den Erfolg eines Bobteams entscheidet, ist der Start. In der ersten Phase des Rennens laufen die Bobfahrer neben und hinter dem Schlitten her und schieben ihn an, um die maximale Geschwindigkeit zu erreichen. Zu diesem Zweck hat das US-Bob/Skeleton-Team (USABS) vor kurzem ein Projekt zum Bau neuer Bobs für die nächsten Olympischen Winterspiele im Jahr 2026 gestartet.

Das amerikanische Unternehmen CRP USA, das sich auf 3D-Druckdienstleistungen unter Verwendung von Windform-Hochleistungsmaterialien spezialisiert hat, ist einer der wichtigsten Partner in diesem Projekt und hat sich verpflichtet, das USABS-Team mit funktionellen Teilen für die Rennbobs zu versorgen.

3D-Druck für Schiebegriffe, Haltegriffe und Sitze eingesetzt

Zu den im 3D-Druck hergestellten Teilen von CRP USA gehören Schiebegriffe, Haltegriffe und

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3D PRINTING NEWS NEWS

US Bobsled Team (USABS) Turns to 3D Printing Before the 2026 Olympics

Published on January 18, 2024 by Madeleine P.



Bobsled is an incredible sport that has been increasingly winning over adrenaline junkies worldwide. Though in the USA, most people's exposure to the sport is through the 1990s hit movie "Cool Runnings," it is now a popular winter event. And now it has a connection to additive manufacturing as well. The US team has announced that it is already focusing on preparing for the next Winter Olympics in 2026 with the United States Bobsled and Skeleton Federation (USABS) is modernizing the sport by turning to 3D printing.

Although the means have changed since the sport's beginnings, the parts for the bobsleds must be able to withstand increasingly high loads due to the speed and physical forces involved. In addition, the personalization of the equipment is playing an increasingly important role and, of course, the safety of the athletes, which requires appropriate measures. It is for these reasons that the USABS has turned to additive manufacturing to produce several sled parts.

3D printing does not require the casting of molds, resulting in lower costs and time savings. Moreover, parts can be customized and there are virtually no limits to the design, meaning that even complex components can be manufactured with ease. The USABS team was also convinced by these advantages and announced a new partnership with the American 3D printing service provider CRP USA on October 4, 2023.



JEC



<https://www.jecomposites.com/news/spotted-by-jec/revolutionizing-bobsleds-crp-usa-and-usabs-forge-innovations-with-3d-printed-windform-components/>

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Revolutionizing Bobsleds: CRP USA and USABS forge innovations with 3D-Printed Windform components

CRP USA joins forces with USABS team, delivering cutting-edge 3D-printed bobsled parts. Windform SP and XT 2.0 offer flexibility, strength, stress resistance addressing challenges. Dive into the comprehensive case study on the Windform website for insights into this groundbreaking partnership's evolution.

READING TIME
1 minute, 60 secondes

CRP USA forged a significant partnership with the **USA Bobsled/Skeleton team (USABS)**. This collaboration involves the supply of **3D printed functional components for racing bobsleds**, a venture facilitated by CRP USA's introduction to USABS through a local technical partner specializing in carbon fiber products.

The collaboration has seen extensive meetings between CRP USA's team of experts and the USABS team, resulting in a joint effort to identify the ideal materials for critical components. The 3D printed parts provided by CRP USA include push handles, hand grips, and seats, all manufactured using **Windform SLS materials**. Specifically, two Carbon fiber reinforced composites, Windform SP – which is utilized for push handles – while hand grips and seats are crafted from Windform XT 2.0.

One notable advantage highlighted by Marc van den Berg, Technology and Equipment Lead at USA Bobsled/Skeleton team, is the time and cost savings achieved through 3D printing. The absence of the need for molds expedites the production process and reduces costs, enabling faster delivery of components. The flexibility of 3D printing also allows for the creation of more complex parts.

Despite these advantages, the USABS team faced challenges in complying with regulations related to shapes and dimensions. Stress resistance emerged as a critical factor, especially given the significant forces experienced by bobsleds during races and potential crashes. The selected Windform materials addressed these concerns by providing flexibility and strength, preventing part breakage.

The customization of components, such as push handles, demonstrated the efficiency of 3D printing when combined with the right manufacturing materials.

Nathanael "Nate" Baker, Senior Project Coordinator at CRP USA, emphasized the need for easily producible and customizable push handles tailored to each athlete. Windform SP, with its shock resistance and other valuable properties, was identified as the optimal material for these specific components.

Upon successful 3D printing with Windform and delivery of the push handles, the USABS team conducted some tests, assessing stress resistance and ergonomics.



DATE
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Ihr Portal für den 3D-Druck

3D-DRUCK NEWS SPORT

US-Bob-Team (USABS) holt sich in Vorbereitung auf Olympia 2026 den 3D-Druck mit an Board

Am 16. Januar 2024 von Astrid Z. veröffentlicht



Bobsport ist ein spektakulärer Sport, der Speed-Addicts regelmäßig vor den Fernseher lockt und immer mehr Adrenalin-Junkies für sich gewinnt. Zur Popularität haben hierzulande sicher auch die erfreulichen Ergebnisse im Weltcup und nicht zuletzt der Kino-Hit „Cool Runnings“ aus den 1990er Jahren beigetragen. Wie im Film-Klassiker die jamaikanische Mannschaft fokussiert sich auch das US-Team bereits auf die Vorbereitung der nächsten Olympischen Winterspiele 2026. Wenngleich sich seit Calgary 1988 die Mittel geändert haben, müssen die Teile für die Bobs wegen der Geschwindigkeit und den physikalischen Kräften zunehmend großen Belastungen standhalten können. Daneben spielt auch die **Personalisierung** der Ausrüstung eine immer größere Rolle und natürlich die Sicherheit der Athleten, was entsprechende Maßnahmen erfordert. Aus diesem Grund wird die additive Fertigung immer häufiger im Wintersport eingesetzt, etwa für Helme, Spikes oder Skischuhe. Auch das amerikanische Bob-Skeleton-Team (USA-Bobsled/Skeleton-Team, USABS) setzt in der Vorbereitung auf Olympia 2026 auf 3D-Druck und fertigt von nun an gleich mehrere Schlitten-Teile additiv.

Der 3D-Druck kommt ohne Gussformen aus, was zu niedrigeren Kosten und Zeitersparnis führt. Die Teile können individuell angepasst werden und dem Design sind kaum Grenzen gesetzt, sodass selbst komplexe Komponenten problemlos gefertigt werden können. Von diesen Vorteilen ließ sich auch das USABS-Team überzeugen und verkündete am 4. Oktober 2023 eine neue Partnerschaft mit dem amerikanischen 3D-Druckdienstleister CRP USA. Dieses Unternehmen stellt im SLS- und PBF-Verfahren funktionelle Teile für Luft- und Raumfahrt, aber auch Automobil-, Motorsport- und den Verteidigungs-Sektor her. Im Rahmen dieses Bündnisses starteten die Kollaborationspartner ein neues Projekt für die Winterspiele 2026 und statteten die Rennbobs des US-Teams mit 3D-gedruckten Teilen aus, darunter Schiebegriffe, Haltegriffe und Sitze. Zu berücksichtigen galt es auch, die Vorschriften der Olympischen Sportbehörde in Bezug auf die



February 2024



VoxelMatters



Home / Materials / Composites / CRP Technology launches super lightweight Windform SL

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CRP Technology launches super lightweight Windform SL

The black material for PBF/SLS is an ultra-light polyamide-based composite reinforced with carbon fibers that combines exceptional lightweight characteristics with a low density of 0.87 g/cc



Edward Wakefield - February 3, 2024

1 minute read



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CRP Technology, a pioneering 3D printing company and service bureau, has introduced Windform SL (super lightweight), the twelfth material in the Windform TOP-LINE series. The black material for PBF/SLS is an ultra-light polyamide-based composite reinforced with carbon fibers that combines exceptional lightweight characteristics with a low density of 0.87 g/cc.

The market debut of Windform SL, occurring just a few months after the introduction of [Windform TPU](#), CRP Technology's second elastomeric material, and the eleventh addition to the TOP-LINE range, reaffirms the company's commitment to innovation in the realm of 3D printing.

"Our commitment to advancement is resolute. We are a historic, pioneering company continuously innovating, creating top-of-the-line materials for professional 3D printing, and Windform SL is the latest proof, a further step forward in our



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del 05/02/2024



[CRP Technology lancia un nuovo materiale per la stampa 3D professionale](#)

Si tratta di un composito a base poliammidica di colore nero, rinforzato con fibre di carbonio, molto leggero

CRP Technology introduce nel mercato dell'Additive Manufacturing un nuovo materiale per la stampa 3D professionale Powder Bed Fusion/Sinterizzazione Laser Selettiva, il Windform SL. Questo materiale, il dodicesimo della prestigiosa gamma...

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Archer Aviation Inc., leader nel settore dei velivoli elettrici a decollo e atterraggio verticale (eVTOL), ha annunciato che l'aereo Midnight della compagnia ha raggiunto un'altra milestone chiave con il completamento...

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STAMPA 3D

CRP Technology lancia un nuovo materiale per la stampa 3D professionale

Si tratta di un composito a base poliammidica di colore nero, rinforzato con fibre di carbonio, molto leggero

Tempo stimato di lettura 1,03 min



Drone ultraleggero in Windform SL (CRP Technology)



CRP Technology introduce nel mercato dell'Additive Manufacturing un nuovo materiale per la stampa 3D professionale Powder Bed Fusion/Sinterizzazione Laser Selettiva, il Windform SL.

Questo materiale, il dodicesimo della prestigiosa gamma Windform TOP-LINE, costituisce un importante avanzamento nel settore.

Il Windform SL è un composito a base poliammidica di colore nero, rinforzato con fibre di carbonio, molto leggero (la sigla "SL" indica "Super Light") con una densità di 0,87 g/cc. Questa caratteristica, unita al rinforzo in fibre di carbonio, rende il Windform SL un materiale premium unico, leggero e rigido allo stesso tempo.

L'introduzione sul mercato del Windform SL, che segue di pochi mesi il lancio del secondo materiale elastomerico di CRP Technology (Windform TPU) e undicesimo materiale della TOP-LINE, conferma la continua spinta innovativa dell'azienda nel mondo della stampa 3D.

Franco Cevolini, CEO e Direttore Tecnico di CRP Technology, commenta: "La

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3D PRINTING

CRP Technology unveils Windform SL

It is a black polyamide-based composite reinforced with carbon fibers and it is exceptionally light

Estimated time of reading **1.10 min**



Ultralight drone in Windform SL (CRP Technology)



In the rapidly evolving field of Additive Manufacturing, the globally leading 3D printing service bureau CRP Technology unveils Windform SL, a material for Powder Bed Fusion/Selective Laser Sintering professional 3D printing. As the twelfth addition to the prestigious Windform TOP-LINE range (created by CRP Technology), Windform SL marks a significant leap forward in the AM industry.

Windform SL, a black polyamide-based composite reinforced with carbon fibers, is exceptionally light, as indicated by the "SL" designation, standing for "Super Light," and boasts a density of 0.87 g/cc. This unique combination of characteristics, blending lightness and rigidity, positions Windform SL as a premium material.

The market debut of Windform SL, occurring just a few months after the introduction of CRP Technology's second elastomeric material (Windform TPU) and the eleventh addition to the TOP-LINE range, reaffirms the company's unwavering commitment to innovation in the realm of 3D printing.

Franco Cevolini, CEO and Technical Director of CRP Technology, comments: "Our commitment to advancement is resolute. We are a historic, pioneering company continuously innovating, creating top-of-the-line materials for

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3D GRENZENLOS



📅 4. Februar 2024 👤 Marcel Thum 🗂️ 3D-Druck-Zubehör & Zusatzgeräte 💬 Kommentiere den Beitrag als Erster

CRP Technology präsentiert ultraleichtes 3D-Druckermaterial Windform SL

CRP Technology hat Windform SL vorgestellt, ein neues ultraleichtes Material für den professionellen 3D-Druck. Es kombiniert Leichtigkeit mit hoher struktureller Stabilität und ist ideal für anspruchsvolle Umgebungen.



1. Windform SL ist eine ultraleichte Polyamid-basierte Kompositmischung, verstärkt mit Kohlenstofffasern.
2. Das Material hat eine geringe Dichte von nur 0,87 g/cm³ und bietet außergewöhnliche Leichtbaueigenschaften.
3. Es eignet sich besonders für UAV/UAS Anwendungen und zeichnet sich durch hohe Hitzeformbeständigkeit und Schlagzähigkeit aus.
4. Windform SL ermöglicht eine hervorragende Oberflächenqualität nach der Bearbeitung.
5. Das Material eröffnet neue Möglichkeiten in der Produktion von Komponenten in der Luft- und Raumfahrt sowie im Automobilsektor.

Suche ... 🔍

Neueste Veröffentlichungen

- Universität von Wollongong erhält Förderung zur Forschung am 3D-Druck zur Gesichtsrekonstruktion bei Krebspatienten
5. Februar 2024
- Siemens startet Special Interest Group für Additive Manufacturing, um Wissensaustausch und Networking zu fördern
5. Februar 2024
- Maker entwickelt fliegenden Regenschirm aus dem 3D-Drucker
4. Februar 2024

CRP Technology hat kürzlich Windform SL (superleicht) vorgestellt, das neueste Mitglied in der Windform TOP-LINE Serie des Herstellers für professionelle 3D-Druckmaterialien. Dieses innovative, schwarze Material, speziell entwickelt für den PBF/SLS



(Pulverbettfusion/Selektives Lasersintern), ist eine ultraleichte Polyamid-basierte Kompositmischung, verstärkt mit Kohlenstofffasern. Es besticht durch seine außergewöhnlich leichten Eigenschaften bei einer geringen Dichte von nur 0,87 g/cm³.

Ein Fortschritt in der Welt des 3D-Drucks

Die Markteinführung von Windform SL erfolgt nur wenige Monate nach der Präsentation von Windform TPU, dem zweiten elastomeren Material von CRP Technology und dem elften Zusatz zur TOP-LINE Palette. Dies unterstreicht das kontinuierliche Engagement des Unternehmens für Innovation im Bereich des 3D-Drucks.

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Press release

3D Printing Service Bureau CRP Technology Launches Windform SL, the Top-of-the-Line Super Lightweight Composite for Professional 3D Printing

02-05-2024 02:35 PM CET | Advertising, Media Consulting, Marketing Research
Press release from: CRP Technology



3D printed ultralight drone in Windform SL

indicated by the "SL" designation, standing for "Super Light," and boasts a density of 0.87 g/cc. This unique combination of characteristics, blending lightness and rigidity, positions Windform SL as a premium material.

The market debut of Windform SL, occurring just a few months after the introduction of CRP Technology's second elastomeric material (Windform TPU) and the eleventh addition to the TOP-LINE range, reaffirms the company's unwavering commitment to innovation in the realm of 3D printing.

Franco Cevoloni, CEO and Technical Director of CRP Technology, comments: "Our commitment to advancement is resolute. We are a historic, pioneering company continuously innovating, creating top-of-the-line materials for professional 3D printing, and Windform SL is the latest proof, a further step forward in our growth journey that keeps us at the forefront of the industry.

As a leading 3D printing service provider, I am confident that this material will swiftly become the winning choice for many UAV and automotive customers relying on our 3D printing department for the of their advanced parts."

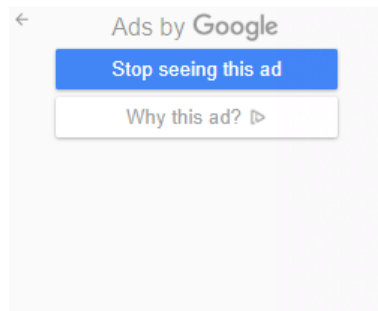
Windform SL is particularly well-suited for producing functional prototypes and components in the UAV/UAS sector, and applications demanding a balance of lightness, stiffness, and thermal resistance.

The HDT at 1.82 MPa of 182.5 °C, combined with high values of Specific Tensils Modulus, Specific Tensile Strength, and Impact Strength (Charpy and Izod), are among the key features of Windform SL. These characteristics indeed provide it with the ability to

CRP Technology, a pioneering company in the 3D printing industry and a leading 3D printing service bureau, introduces Windform SL, the twelfth material in the Windform TOP-LINE series, setting new standards in additive manufacturing. Windform SL, a polyamide-based composite reinforced with Carbon fibers, combines exceptional lightweight characteristics with a low density of 0.87 g/cc, making it an ultra-light and rigid material.

In the rapidly evolving field of Additive Manufacturing, the globally leading 3D printing service bureau CRP Technology unveils Windform SL, a groundbreaking material for Powder Bed Fusion/Selective Laser Sintering professional 3D printing. As the twelfth addition to the prestigious Windform TOP-LINE range (created by CRP Technology), Windform SL marks a significant leap forward in the AM industry.

Windform SL, a black polyamide-based composite reinforced with carbon fibers, is exceptionally light, as





Manufacturing Tomorrow



3D Printing Service Bureau CRP Technology Launches Windform SL, the Top-of-the-Line Super Lightweight Composite for Professional 3D Printing

Visit <https://www.crptechnology.com/> for further information

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02/05/24, 05:46 AM | Additive & 3D Printing, Engineering | CRP Technology

In the rapidly evolving field of Additive Manufacturing, the globally leading 3D printing service bureau CRP Technology unveils Windform SL, a groundbreaking material for Powder Bed Fusion/Selective Laser Sintering professional 3D printing. As the twelfth addition to the prestigious Windform TOP-LINE range (created by CRP Technology), Windform SL marks a significant leap forward in the AM industry.

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Windform SL, a black polyamide-based composite reinforced with carbon fibers, is exceptionally light, as indicated by the "SL" designation, standing for "Super Light," and boasts a density of 0.87 g/cc. This unique combination of characteristics, blending lightness and rigidity, positions Windform SL as a premium material.

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CRP Technology launches new Windform SL super lightweight composite for professional 3D printing

The "super-light" material is a polyamide-based composite reinforced with carbon fibres.

BY OLIVER JOHN SON 5 FEBRUARY 2024 16:08



©CRP Technology

CRP Technology has announced the release of the Windform SL 3D printing material, the twelfth material in the Windform TOP-LINE series. Windform SL is a polyamide-based composite reinforced with carbon fibres, and according to the company, combines exceptional lightweight characteristics, hence the name SL (Super Light), with a low density of 0.87 g/cc, making it a light and rigid material.

Franco Cevolini, CEO and Technical Director of CRP Technology said: "Our commitment to advancement is resolute. We are a historic, pioneering company continuously innovating, creating top-of-the-line materials for professional 3D printing, and Windform SL is the latest proof, a further step forward in our growth journey that keeps us at the forefront of the industry.

"As a leading 3D printing service provider, I am confident that this material will swiftly become the winning choice for many UAV and automotive customers relying on our 3D printing department for their advanced parts."

Read more: [CRP Technology launches Windform TPU material for SLS 3D printing](#)

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CRP Technology Introduces Windform SL: A Revolution in 3D Printing Materials

CRP Technology unveils Windform SL, a new 3D printing material. The super-light composite presents a unique blend of lightness and rigidity, expected to transform the UAV and automotive sectors.



Aqsa Younas Rana

05 Feb 2024 12:37 EST



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CRP Technology, a vanguard in the 3D printing industry, has unveiled its latest innovation, the **Windform SL**, marking the twelfth addition to its renowned Windform TOP-LINE series. This super-light composite, fashioned from a polyamide base and reinforced with carbon fibers, offers a groundbreaking amalgam of feather-lightness and rigidity, courtesy of its low density of 0.87 g/cc.

Revolutionizing UAV and Automotive Industries

Windform SL's unique properties render it particularly fitting for the UAV and automotive sectors. Its introduction is expected to redefine manufacturing of advanced parts in these industries. The material's low density, coupled with its exceptional tensile modulus, tensile strength, and impact strength, guarantees structural stability, even under the most extreme stress conditions and high temperatures.



Jfm CONCEPTS



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3D PRINTING

CRP Know-how launches tremendous light-weight Windform SL

By Madohen1-Admin February 3, 2024

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CRP Know-how, a pioneering 3D printing firm and repair bureau, has launched Windform SL (tremendous light-weight), the twelfth materials within the Windform TOP-LINE sequence. The black materials for PBF/SLS is an ultra-light polyamide-based composite bolstered with carbon fibers that mixes distinctive light-weight traits with a low density of 0.87 g/cc.

The market debut of Windform SL, occurring only a few months after the introduction of Windform TPU, CRP Know-how's second elastomeric materials, and the eleventh addition to the TOP-LINE vary, reaffirms the corporate's dedication to innovation within the realm of 3D printing.

"Our dedication to development is resolute. We're a historic, pioneering firm repeatedly innovating, creating top-of-the-line supplies for skilled 3D printing, and Windform SL is the newest proof, an additional step ahead in our progress journey that retains us on the forefront of the trade," mentioned Franco Cevolini, CEO and Technical Director of CRP Know-how. "As a number one 3D printing service supplier, I'm assured that this materials will swiftly grow to be the successful selection for a lot of UAV and automotive prospects counting on our 3D printing division for his or her superior components."



Stampare in 3D

Stampare in 3D

MATERIALI

CRP Technology presenta Windform SL



Di Fantasy
FEB 4, 2024



CRP Technology Introduce Windform SL: Innovativo Materiale Ultraleggero per la Stampa 3D

CRP Technology ha recentemente presentato Windform SL, l'ultimo aggiornamento alla serie Windform TOP-LINE del produttore di materiali per la stampa 3D professionale. Questo nuovo materiale innovativo, di colore nero, è stato appositamente sviluppato per la tecnologia PBF/SLS (Powder Bed Fusion/Selective Laser Sintering) ed è una miscela composita ultraleggera a base di poliammide, rinforzata con fibre di carbonio. Ciò che lo contraddistingue sono le sue eccezionali caratteristiche di leggerezza, con una densità di soli 0,87 g/cm³.

Un Avanzamento nel Mondo della Stampante 3D

L'introduzione di Windform SL avviene solo alcuni mesi dopo la presentazione di Windform TPU, il secondo materiale elastomerico di CRP Technology e l'undicesimo aggiornamento alla gamma TOP-LINE. Ciò sottolinea l'impegno costante dell'azienda nell'innovazione nel campo della stampa 3D.

Franco Cevolini, CEO e Direttore Tecnico di CRP Technology, sottolinea il loro costante impegno per il progresso:

"Siamo un'azienda storicamente all'avanguardia, costantemente impegnata nello sviluppo di tecnologie all'avanguardia per la stampa 3D professionale. Windform SL è l'ennesima dimostrazione di ciò e rappresenta un ulteriore passo avanti nel nostro percorso di crescita che ci tiene in prima linea nel settore."

Cevolini è convinto che questo materiale diventerà presto la scelta principale per numerosi clienti nell'ambito degli UAV e dell'industria automobilistica che si affidano al reparto di stampa 3D di CRP per i loro componenti avanzati.

Applicazioni e Caratteristiche

Windform SL è particolarmente adatto per la produzione di prototipi funzionali e componenti nell'ambito degli UAV/UAS, nonché per applicazioni che richiedono un equilibrio tra leggerezza, rigidità e resistenza termica. La sua resistenza al calore a 1,82 MPa a 182,5 °C, insieme a valori elevati di modulo di trazione specifico, resistenza specifica alla trazione e resilienza all'urto (Charpy e Izod), sono alcune delle caratteristiche chiave di Windform SL. Queste proprietà consentono di mantenere la stabilità strutturale anche sotto carichi intensi, anche a temperature elevate, garantendo prestazioni affidabili in ambienti impegnativi.

Degno di nota è anche il finish superficiale dopo la lavorazione, con valori di Ra di 5,44 µm dopo il processo SLS, 1,56 µm dopo la lavorazione manuale e 0,83 µm dopo la lavorazione CNC.

Windform SL promette di rivoluzionare la produzione di componenti avanzati ed efficienti in diversi settori, dalla tecnologia aerospaziale all'industria automobilistica, garantendo leggerezza senza compromettere la robustezza.



Il Replicatore

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Home / Materiali / CRP Technology lancia Windform SL superleggero

Materiali

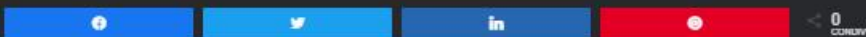
CRP Technology lancia Windform SL superleggero

Il materiale nero per PBF/SLS è un composito ultraleggero a base poliammidica rinforzato con fibre di carbonio che combina eccezionali caratteristiche di leggerezza con una bassa densità di 0,87 g/cc.



Edward Wakefield · 20 ore fa

0 1 minuto di lettura



CRP Technology, azienda pionieristica di stampa 3D e centro di servizi, ha introdotto Windform SL (super leggero), il dodicesimo materiale della serie Windform TOP-LINE. Il materiale nero per PBF/SLS è un composito ultraleggero a base poliammidica rinforzato con fibre di carbonio che combina eccezionali caratteristiche di leggerezza con una bassa densità di 0,87 g/cc.

Il debutto sul mercato di Windform SL, avvenuto pochi mesi dopo l'introduzione di Windform TPU, il secondo materiale elastomerico di CRP Technology e l'undicesimo arrivato nella gamma TOP-LINE, riafferma l'impegno dell'azienda verso l'innovazione nel campo della stampa 3D.

"Il nostro impegno per il progresso è risoluto. Siamo un'azienda storica e pionieristica che innova continuamente, creando materiali al top per la stampa 3D professionale, e Windform SL ne è l'ultima prova, un ulteriore passo avanti nel nostro percorso di crescita che ci mantiene all'avanguardia nel settore," ha affermato Franco Cevolini, Amministratore Delegato e Direttore Tecnico di CRP Technology. "In qualità di fornitore leader di servizi di stampa 3D, sono fiducioso che questo materiale diventerà rapidamente la scelta vincente per molti clienti UAV e automobilistici che si affidano al nostro reparto di stampa 3D per le loro parti avanzate".

Windform SL è particolarmente adatto per la produzione di prototipi e componenti funzionali nel settore UAV/UAS e per applicazioni che richiedono un equilibrio tra leggerezza, rigidità e resistenza termica.

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MATERIALIEN

Dienstleister CRP Technology präsentiert ultraleichtes 3D-Druck-Material

von Joram - Feb 6, 2024

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Der 3D-Druck-Dienstleister CRP Technology stellt Windform SL ("Super Light") vor. Es ist das zwölfte Material in der Windform TOP-LINE-Serie, das neue Maßstäbe im Bereich des additiven Fertigungs setzen soll. Windform SL, ein auf Polyamid basierendes Kompositmaterial mit Carbonfaserverstärkung, vereint außergewöhnliche Leichtbauweise mit einer geringen Dichte von 0,87 g/cc und macht es zu einem ultraleichten und steifen Material.

Windform SL, ein fortschrittliches Kompositmaterial basierend auf Polyamid und verstärkt mit Carbonfasern, zeichnet sich durch seine extrem leichte Beschaffenheit mit einer Dichte von lediglich 0,87 g/cc aus. Diese Eigenschaften machen es zu einem der leichtesten Materialien auf dem Markt, ohne dabei Kompromisse bei der Festigkeit einzugehen. Die Entwicklung von Windform SL unterstreicht das Engagement von CRP Technology für Innovation und deren Bestreben, den Anforderungen ihrer Kunden stets einen Schritt voraus zu sein.

Foto: CRP Technology

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Composites World



Published 2/6/2024

CRP Technology launches Windform SL for UAV needs

Carbon fiber-reinforced polyamide, added to CRP's Top-Line series, is well suited to demands for lightness, stiffness and thermal resistance in composites 3D printing.

CARBON FIBERS MATERIALS PROCESSES AEROSPACE REINFORCEMENTS ADDITIVE MANUFACTURING



Edited by: GRACE NEHLS [in](#)
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Windform SL targets the UAV/UAS sector. Source | CRP Technology

3D printing service bureau [CRP Technology](#) (Modena, Italy) introduces Windform SL, the 12th material in the Windform Top-Line additive manufacturing (AM) series. A black carbon fiber-reinforced polyamide composite, Windform SL combines ultra-light (designated by the "SL"), rigid characteristics with a low density of 0.87 g/cc, ensuring light weight without the need to reduce thickness.

Designed specifically for powder bed fusion/selective laser sintering (PBF/SLS), Windform SL is particularly well suited for producing functional prototypes and components in the UAV/UAS sector, and applications demanding a balance of lightness, stiffness and thermal resistance, such as automotive.

A heat deflection temperature (HDT) of 182.5°C at 1.82 MPa, combined with high values in specific tensile modulus, specific tensile strength and impact strength (Charpy and Izod), are among Windform SL's key features, which provide it with the ability to maintain structural stability under intense stress, even at elevated temperatures, ensuring reliable performance in demanding environments.

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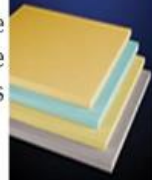
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MATERIALS

Service provider CRP Technology presents ultralight 3D printing material Windform SL

By Lucia Gartner - Feb 6, 2024



Picture: CRP Technology

The 3D printing service provider **CRP Technology** presents Windform SL ("Super Light"). It is the twelfth material in the Windform TOP-LINE series, which is intended to set new standards in the field of additive manufacturing. Windform SL, a polyamide-based composite material with carbon fiber reinforcement, combines exceptional lightweight construction with a low density of 0.87 g/cc, making it an ultra-light and stiff

material.

Windform SL, an advanced composite material based on polyamide and reinforced with carbon fibers, is characterized by its extremely lightweight nature with a density of only 0.87 g/cc. These properties make it one of the lightest materials on the market without compromising on strength. The development of Windform SL underlines CRP Technology's commitment to innovation and its desire to stay one step ahead of its customers' requirements.

Franco Cevolini, CEO and Technical Director of CRP Technology, comments: "Our commitment to innovation is unwavering. We are a historic, pioneering company that continuously creates cutting-edge innovative materials for professional 3D printing, and Windform SL is the latest proof, another step forward in our growth journey that keeps us at the forefront of the industry."

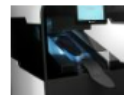
As a leading 3D printing service provider with a range that now includes 12 different Windform composites, I am confident that this material will quickly become the preferred choice for many UAV and automotive customers who rely on our 3D printing department to manufacture their advanced parts."

Windform SL's technical specifications, such as high heat deflection temperature (HDT) at 182.5°C and excellent mechanical properties, allow the production of parts that are

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MATERIALI

Materiale superleggero e resistente per la manifattura additiva SLS

06 Febbraio 2024



CRP Technology ha introdotto nel mercato della manifattura additiva il nuovo materiale **Windform SL** per la stampa 3D professionale mediante tecnologia SLS (Sinterizzazione Laser Selettiva). Il lancio di **Windform SL** segue di pochi mesi quello di **Windform TPU**, il secondo materiale elastomerico e l'undicesimo materiale della serie Top-Line dell'azienda, e conferma la continua spinta all'innovazione di CRP Technology nel mondo della stampa 3D.



Questo materiale, il **dodicesimo della gamma Windform Top-Line dell'azienda**, costituisce un importante avanzamento nel settore. Si tratta di un composito a base poliammidica di colore nero, rinforzato con fibre di carbonio, molto leggero - la sigla **SL**, infatti, significa "Super Light" - con una densità di 0,87 g/cc, caratteristica, questa, che, unita al rinforzo in fibre di carbonio, rende il Windform SL un materiale leggero e rigido allo stesso tempo.

Windform è particolarmente adatto per la produzione di **prototipifunzionali** e **componenti finiti** nel settore degli UAV/UAS, nonché per applicazioni che richiedono una combinazione di leggerezza, rigidità e resistenza termica. Una HDT 1.82 Mpa di 182,5 °C insieme a elevati valori di modulo elastico specifico, carico di rottura specifico e resilienza (Charpy e Izod) sono tra i punti di forza di Windform SL. Queste caratteristiche gli conferiscono la capacità di mantenere stabilità strutturale sotto sollecitazioni intense, anche in temperatura, garantendo prestazioni affidabili in contesti impegnativi. La finitura superficiale post-processo è altrettanto eccellente, con valori di Ra di 5,44 micron dopo il processo SLS, 1,56 micron dopo la finitura manuale e 0,83 micron dopo la lavorazione CNC, garantendo superfici lisce e precise. Windform SL rappresenta quindi una soluzione avanzata per il futuro della stampa 3D professionale. Con ampie applicazioni nel settore UAV e oltre, il materiale si addice alla produzione di componenti sofisticati ed efficienti in vari ambiti, dall'aerospaziale all'auto, garantendo leggerezza senza dover ridurre gli spessori.

"La nostra dedizione al rinnovamento è incessante. Siamo un'azienda storica, pionieristica, che continua a innovare creando materiali top di gamma per la stampa 3D professionale, e il Windform SL ne è l'ultima dimostrazione, un ulteriore passo avanti nel nostro percorso di crescita che ci mantiene leader di settore", ha dichiarato **Franco Cevolini, CEO e direttore tecnico di CRP Technology**.



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CRP Technology lancia Windform SL

Febbraio 6, 2024 30 Views additive manufacturing, CRP Technology, Materials, SLS, stampa 3D

Dodicesimo materiale della linea Windform TOP-LINE di **CRP Technology**, Windform SL è un composito a base poliammidica caricato con fibre di carbonio. Questa caratteristica unita alla bassa densità di 0,87 g/cc lo rendono un materiale ultra leggero e rigido.

Il **service di stampa 3D CRP Technology** introduce nel mercato dell'**Additive Manufacturing** un nuovo materiale per la **stampa 3D** professionale **Powder Bed Fusion/Sinterizzazione Laser Selettiva**, il **Windform SL**. Questo materiale, il dodicesimo della gamma **Windform TOP-LINE**, costituisce un importante avanzamento nel settore.

Il **Windform SL** è un composito a base poliammidica di colore nero, rinforzato con fibre di carbonio, molto leggero (la sigla "SL" indica "Super Light") con una densità di 0,87 g/cc. Questa caratteristica, unita al rinforzo in fibre di carbonio, rende il **Windform SL** un materiale premium unico, **leggero e rigido allo stesso tempo**.

Prestazioni affidabili in contesti impegnativi

L'introduzione sul mercato del **Windform SL**, che segue di pochi mesi il lancio del secondo materiale elastomerico di **CRP Technology** (**Windform TPU**) e undicesimo materiale della TOP-LINE, conferma la continua spinta innovativa dell'azienda nel mondo della **stampa 3D**.

Il **Windform** è particolarmente adatto per la produzione di prototipi funzionali e componenti finiti nel settore degli UAV/UAS, nonché per applicazioni che richiedono una combinazione di leggerezza, rigidità e resistenza termica.

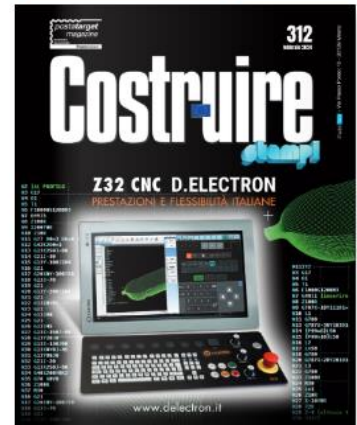
La HDT 1.82 Mpa di 182.5 °C insieme ad elevati valori di Modulo Elastico specifico, Carico di Rottura specifico e Resilienza (Charpy e Izod) sono tra i punti chiave del **Windform SL**. Queste caratteristiche gli conferiscono infatti la capacità di mantenere stabilità strutturale sotto sollecitazioni intense, anche in temperatura, garantendo prestazioni affidabili in contesti impegnativi.

La finitura superficiale post-processo è altrettanto notevole, con valori di Ra di 5,44 µm dopo il processo SLS, 1,56 µm dopo la finitura manuale e 0,83 µm dopo la lavorazione CNC, garantendo superfici lisce e precise.



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Информер новостей

CRP Technology выпустила компаунд на основе полиамида для печати БПЛА

Вт, 13 Февраль 2024 | Тема: [Новые материалы и марки](#)

Компания CRP Technology (Италия) открыла новую главу в секторе промышленной 3D-печати выпуском Windform SL, инновационного материала для печати по технологии селективного лазерного спекания (SLS), который представляет собой 12-й материал в линейке и знаменует собой значительный шаг вперед в области аддитивного производства.

Windform SL представляет собой компаунд в виде порошка черного цвета на основе полиамида, армированный углеродными волокнами. Обозначение SL указывает на его «суперлегкую» характеристику с плотностью 0,87 г/см³. Эта особенность в сочетании с усилением из углеродного волокна придает Windform SL уникальность премиум-класса, обеспечивая одновременно легкий вес и жесткость.



CRP Technology выпустила компаунд Windform SL на основе полиамида для печати БПЛА

Изображение: CRP Technology srl

Windform SL появляется на рынке через несколько месяцев после запуска 11-го промышленного материала для 3D-печати от CRP Technology, второго резиноподобного материала, что демонстрирует постоянное стремление компании к передовым решениям в индустрии 3D-печати.

Генеральный директор и технический директор CRP Technology Франко Чевolini заявил: «Наша приверженность инновациям непоколебима. Как историческая и новаторская компания, мы упорно работаем над созданием передовых материалов для профессиональной 3D-печати. Windform SL представляет собой последнее свидетельство этой приверженности, что знаменует собой значительный прогресс на пути нашего роста, который подтверждает наше лидерство в отрасли.

Этот материал быстро станет выигрышным выбором для многих производителей БПЛА (беспилотных летательных аппаратов) и автомобилестроения, которые полагаются на наш отдел 3D-печати в производстве своих передовых деталей».

Windform SL отличается своей пригодностью для производства функциональных прототипов и готовых компонентов в секторе



The Additive Journal



SIGLATO UN ACCORDO DI PARTNERSHIP

CRP Technology collaborerà ufficialmente con l'azienda aerospaziale privata degli Emirati Arabi Uniti **Orbital Space** in qualità di partner tecnologico nella missione Lunar Moon. L'azienda modenese realizzerà nei materiali compositi Windform il payload lunare.

Fondata nel 2018, Orbital Space è una delle principali aziende aerospaziali private con sede negli Emirati Arabi Uniti, dedicata all'esplorazione e allo sviluppo di tecnologie per lo spazio. Ponendo particolare attenzione alle missioni spaziali educative e alla ricerca scientifica, Orbital Space è in prima linea nell'esplorazione spaziale commerciale nei Paesi arabi del Golfo, collaborando con partner pubblici e privati per rendere lo spazio accessibile a tutti.

"Continuiamo a stringere nuove partnership con aziende leader in diversi settori per poter realizzare le nostre aspirazioni di democratizzazione dello spazio. Siamo onorati di collaborare con CRP Technology che ci supporterà nella nostra prossima missione lunare. Riteniamo che la conoscenza e l'esperienza di CRP Technology nei materiali qualificati per lo spazio apporteranno un grande valore alla missione, e contribuiranno al suo successo", ha affermato Bassam Alfeeli, Direttore Generale di Orbital Space.

"Abbiamo maturato molta esperienza nel settore Aerospaziale", ha dichiarato Franco Cevolini, CEO e Direttore Tecnico di CRP Technology. "I nostri materiali Windform, qualificati per lo spazio,

stanno ottenendo successi e apprezzamenti clamorosi poiché soddisfano i rigidi requisiti meccanici richiesti per le applicazioni spaziali. Sono sicuro che potremmo svolgere un ruolo fondamentale nel rendere la missione Lunar Moon una realtà".





Manufacturing Tomorrow

<https://www.manufacturingtomorrow.com/news/2024/02/26/crp-technology-to-showcase-cutting-edge-3d-printing-solutions-at-space-comm-expo/22269/>



CRP Technology to Showcase Cutting-Edge 3D Printing Solutions at Space-Comm Expo

Visit <https://www.crptechnology.com/> for further information

For the first time on display at Space-Comm Expo Farnborough the 3D printed, functional, flight- and space-ready solutions in Windform composites that contributed to the success of many space missions

02/26/24, 05:38 AM | Additive & 3D Printing, Engineering | CRP Technology

CRP Technology, a leading 3D printing service bureau renowned for its Windform range of composites for SLS process, is excited to announce its participation in the upcoming edition of Space-Comm Expo. This marks the first time that CRP Technology will attend this prestigious event, demonstrating its commitment to advancing the aerospace industry through innovative additive manufacturing solutions.

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A substantial part of the innovation proposed by CRP Technology lies in the impressiveness of Windform materials, five of which have passed the outgassing tests led by NASA and ESA (in accordance to the ASTM E-595-07 and ECSS-Q-ST-70-02C standards).

Space-Comm Expo will take place on March 6th and 7th, 2024, at the Farnborough International Exhibition & Conference Centre in Farnborough, UK. CRP Technology will be located at booth D7, where attendees can explore a showcase of functional, space-proof components and parts manufactured for some key leader customers by the company's highly skilled staff using Windform composites as manufacturing materials.

Visitors to CRP's booth will have the opportunity to learn about the latest advancements in the aerospace sector achieved through professional 3D printing and the utilization of Windform high-performance composite materials.

Of particular interest is the application of these technologies in the rapidly expanding sector of small satellites (smallsats).

Franco Cevolini, CEO and CTO of CRP Technology, commented on the significance of additive manufacturing technologies in small



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CIM Composites in Manufacturing



Mann and the machine

27 FEBRUARY 2024 • IN FEATURES



3D printed visor in GRP composite Windform GT, assembly test (on left) and helmet built on the scene on actor and dummy (on the right). Image courtesy of Prop On-Set Team

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CRP Technology discusses its vital role in industrial 3D printing for Michael Mann's latest film, 'Ferrari'.

Nestled in the soul of Modena, a city echoing with the thunderous symphony of engines and steeped in the storied tradition of automotive prowess, the eclectic and innovative filmmaker Michael Mann assumed the directorial helm to breathe life into the enthralling saga of Enzo Ferrari, the mastermind behind Ferrari cars.

Drawing inspiration from Brock Yates' seminal 1991 biography, "Enzo Ferrari: The Man and the Machine", Mann's new cinematic masterpiece, 'Ferrari' meticulously explores the profound impact of this visionary Italian luminary on the realms of both automotive engineering and motorsport history.

CRP Technology, Italy-based 3D printing company known for its advancements in the additive manufacturing (AM) sector, proudly collaborated with Michael Mann's film production team, swiftly manufacturing and delivering functional 3D printed props, and showcasing remarkable efficiency in record time. Situated in the Motor Valley, CRP Technology shares its birthplace and headquarters with Ferrari, adding a unique layer of significance to this cinematic collaboration.

Indeed, applying cutting-edge AM techniques and employing its advanced Windform materials for laser sintering well known among the motorsports leaders, CRP Technology contributed significantly to the creation of functional components, some impacting on the film's visual narrative.

The components were commissioned to CRP Technology while the film crew was shooting in Modena, to be used immediately, during the filming in Modena and northern Italy. CRP Technology managed to provide the required 3D printed parts in a short amount of time thus ensuring the strict shooting schedule.

The collaboration involved crafting 3D printed props. These components, created with precision using CRP Technology's expertise and professional 3D printing selective laser sintering (SLS) process, included: driver



AM Additive Manufacturing



Published 2/23/2024

CRP Technology's Windform SL Is Lightweight, Rigid Composite, and More News of Note

BCN3D spins off its VLM business unit to create independent Supernova 3D company | Ross develops VMC-100 VersaMix Multi-Shaft Mixer which processes viscous solutions, dispersions, suspensions and emulsions



Angela Osborne [in](#)
Managing Editor, Gardner Business Media

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Here are a few important recent news items:

- **BCN3D spins off its Viscous Lithography Manufacturing (VLM) business unit to create independent Supernova 3D company.** The new company's focus will be on materials development targeting industrial applications, as well as the industrialization of the product ecosystem, with the first beta systems to be installed in 2024. The new company has been incorporated in the U.S. and will have headquarters in both Austin, Texas, and Barcelona, Spain.
- **CRP Technology's Windform SL is a lightweight, rigid composite for SLS and LPBF.** CRP Technology has added Windform SL to its Windform Top-Line series for additive manufacturing. The material is a polyamide-based composite reinforced with carbon fibers, which combines exceptional lightweight characteristics with a low density of 0.87 g/cc, making it an ultralight and



The Windform SL material can be used to create lightweight, rigid parts without the need to reduce thickness. Source: CRP Technology





AM Additive Manufacturing



Published 2/23/2024

CRP Technology's Windform SL Is Lightweight, Rigid Composite for SLS, LPBF

Windform SL is well suited for the the production of sophisticated, efficient components across various fields, from aerospace to automotive, ensuring light weight without the need to reduce thickness.

COMPOSITES LPBF SLS MATERIALS



Edited by: [Angela Osborne](#) Managing Editor, Gardner Business Media

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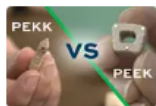


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CRP Technology has added Windform SL to its Windform Top-Line series for additive manufacturing (AM). Windform SL is a polyamide-based composite reinforced with carbon fibers, which combines exceptional [lightweight](#) characteristics with a low density of 0.87 g/cc, making it an ultralight and rigid material.



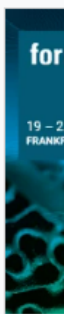
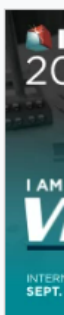
Windform SL can be used to create lightweight, rigid parts without the need to reduce thickness. Source: CRP Technology

The material is designed for use with [laser powder bed fusion \(LPBF\)](#) and [selective laser sintering \(SLS\)](#) professional 3D printing. As the twelfth addition to the Windform Top-Line range, the company says Windform SL marks a significant leap forward in the AM industry.

The material is a black polyamide-based composite reinforced with carbon fibers, making it exceptionally light, as indicated by the "SL" designation which stands for "Super Light."

The market debut of Windform SL is occurring just a few months after the introduction of CRP Technology's second elastomeric material ([Windform TPU](#)) and eleventh addition to the Top-Line range, further illustrating the company's commitment to innovation for 3D printing.

"Our commitment to advancement is resolute. We are an historic, pioneering company continuously innovating, creating top-of-the-line materials for





UST



3D Printing Solutions to be Showcased at Space-Comm Expo

A substantial part of the innovation proposed by CRP Technology lies in the impressiveness of Windform materials, five of which have passed the outgassing tests led by NASA and ESA

By Abi Wylie / 27 Feb 2024

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CRP Technology, a leading 3D printing service bureau known for its Windform range of composites for SLS process, will be participating in the upcoming edition of Space-Comm Expo.

This marks the first time that CRP Technology will attend this prestigious event, demonstrating its commitment to advancing the aerospace industry through innovative additive manufacturing solutions.

A substantial part of the innovation proposed by CRP Technology lies in the impressiveness of Windform materials, five of which have passed the outgassing tests led by NASA and ESA (in accordance to the ASTM E-595-07 and ECSS-Q-ST-70-02C standards).



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Manufacturing Tomorrow



CRP USA Welcomes New CEO, Chris Brewster

Visit <https://www.crp-usa.net/> for further information

CRP USA has appointed Chris Brewster as new Chief Executive Officer (CEO), effective January 29, 2024. With his extensive background in various manufacturing sectors including space, aerospace, military, and medical, Chris brings a wealth of knowledge and expertise to CRP USA team.


02/27/24, 08:57 AM | Additive & 3D Printing, Engineering | CRP USA LLC

MOORESVILLE, NC, February 27, 2024 - CRP USA, a U.S.-based specialized company in advanced 3D printing services with the Windform family of high-performance composites, is thrilled to announce a pivotal development signaling the dawn of a new era. Effective January 29, 2024, CRP USA proudly welcomes Chris Brewster as its new Chief Executive Officer (CEO).

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Columbus Consulting partners with GreyOrange for Innovative Solutions

Chris joins CRP USA with an impressive background at various manufacturing companies within space, aerospace, military, medical, research, and industrial markets. With a track record of growth and innovation, Chris has led several manufacturers to grow many times their size and enter into new and exciting markets. Most recently, during his time at Cornell Dubilier, he led projects to align the business to customer needs, introduce new products in new markets, and work with public and private entities to advance the technology and development of Nuclear Fusion Energy. Chris brings a wealth of knowledge and expertise that will undoubtedly propel CRP USA to new heights.

"Under Chris's leadership, we will continue to prioritize customer satisfaction, innovation, and sustainability in everything we do." - states CRP USA team. "We believe that Chris's strategic vision and leadership will enable us to not only meet but exceed your expectations. His passion for customer centric business management aligns perfectly with our mission to grow in the additive manufacturing world of innovative and demanding applications by pushing the boundaries of the manufacturing services offered. We are confident that his leadership will drive us toward even greater success, and we look forward to the exciting opportunities that lie ahead."




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Chris Brewster is the new CEO of CRP USA

VoxelMatters February 28, 2024

1 minute read



Stay up to date with everything that is happening in the wonderful world of AM via our [LinkedIn](#) community.

Chris Brewster is the new Chief Executive Officer (CEO) of CRP USA, a U.S.-based specialized company in advanced 3D printing services with the Windform family of high-performance composites. The role is effective as of January 29th, 2024.

Chris joins CRP USA with a background at various manufacturing companies within space, aerospace, military, medical, research, and industrial markets. With a track record of growth and innovation, Chris has led several manufacturers to grow many times their size and enter into new and exciting markets. Most recently, during his time at Cornell Dubilier, he led projects to align the business to customer needs, introduce new products in new markets, and work with public and private entities to advance the technology and development of Nuclear Fusion Energy. Chris brings a wealth of knowledge and expertise that will undoubtedly propel CRP USA to new heights.

"Under Chris's leadership, we will continue to prioritize customer satisfaction, innovation, and sustainability in everything we do," CRP USA said in an official statement. "We believe that Chris's strategic vision and leadership will

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CW Composites World



Published 2/27/2024

People in composites: February 2024

This month's new hires and personnel updates in the composites industry include Gurit, Teijin Ltd. and CRP Technology.



Edited by: **GRACE NEHLS** Senior Managing Editor, *CompositesWorld*

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People in composites: January 2024



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CRP Technology welcomes new CEO

CRP USA (Mooresville, N.C., U.S.) a specialized company in 3D printing services via its Windform family of high-performance composites, welcomes Chris Brewster as its new chief executive officer (CEO).



Chris Brewster, CRP USA CEO.

Brewster joins CRP USA

with a background at various manufacturing companies within space, aerospace, military, medical, research and industrial markets. With a track record of growth and innovation, he has led several manufacturers to grow many times their size and enter into new markets. Most recently, during his time at Cornell Dubilier, he led projects to align the business to customer needs, introduce new products in new markets, and work with public and private entities to advance the technology and development of nuclear fusion energy. Brewster brings a wealth of knowledge and expertise that will undoubtedly propel CRP USA to new heights.

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Gurit announces new CFO, group head of HR

The board of directors of Gurit Holding AG (Wattwil, Switzerland) has appointed Dr. Javier Perez Freije as the company's new chief financial officer (CFO) and Karen Glauser as the new group head of human resources (HR).

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CRP Technology präsentiert Weltraum-taugliche 3D-Druckmaterialien auf der Space-Comm Expo

von Joram - Feb 28, 2024

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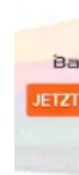
Foto: CRP Technology

CRP Technology, ein Pionier im Bereich der additiven Fertigung, wird auf der Space-Comm Expo 2024 seine Expertise im 3D-Druck vorstellen und damit seine Rolle als Innovationsführer in der Luft- und Raumfahrtindustrie unterstreichen. Das Unternehmen, bekannt für seine Windform-Reihe von Verbundwerkstoffen, die speziell für das Selektive Lasersintern (SLS) entwickelt wurden, betritt zum ersten Mal die Bühne dieses renommierten Ereignisses.

Ein Schlüsselement der Innovation, die CRP Technology vorantreibt, sind die Windform-Materialien. Fünf dieser Materialien haben die strengen

Ausgasungstests der NASA und der ESA bestanden, ein Zeugnis ihrer Eignung für den Einsatz im Weltraum. Diese Tests sind entscheidend, um die Materialverträglichkeit in der empfindlichen Umgebung des Weltraums zu gewährleisten.

Die Teilnahme an der Space-Comm Expo, die am 6. und 7. März 2024 im Farnborough International Exhibition & Conference Centre stattfindet, ermöglicht es CRP Technology, seine fortschrittlichen 3D-Drucklösungen einem breiten Fachpublikum zu präsentieren. Am Stand D7 können Besucher die breite Palette an weltraumtauglichen Komponenten begutachten, die mit den Windform-Materialien hergestellt wurden.



Grund

- Teil 1
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CIM Composites in Manufacturing



SECTOR REPORT: TRANSPORT

Mann and the machine

CRP Technology discusses its vital role in industrial 3D printing for Michael Mann's latest film, 'Ferrari'.



Image courtesy of Propos 3D/CRP

Nestled in the soul of Modena, a city echoing with the thunderous symphony of engines and steeped in the storied tradition of automotive prowess, the eclectic and innovative filmmaker Michael Mann assumed the directorial helm to breathe life into the enthralling saga of Enzo Ferrari, the mastermind behind Ferrari cars.

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CRP Technology shares its birthplace and headquarters with Ferrari, adding a unique layer of significance to this cinematic collaboration.

Indeed, applying cutting-edge AM techniques and employing its advanced Windform materials for laser sintering well known among the motorsports leaders, CRP Technology contributed significantly to the creation of functional components, some impacting on the film's visual narrative.

The components were commissioned to CRP Technology while the film crew was shooting in Modena, to be used immediately, during the filming in Modena and northern Italy. CRP Technology managed to provide the required 3D printed parts in a short amount of time thus ensuring the strict shooting schedule.

The collaboration involved crafting 3D printed props. These components, created with precision using CRP Technology's expertise and professional 3D printing selective laser sintering (SLS) process, included: driver helmet parts (visor), pit components and cat's eyes, which

contributed significantly to the film's narrative.

The mathematics of the parts was appropriately aged to adapt the 3D components to the scene needs. The 3D printed props also highlight the versatility of CRP Technology's Windform composites: in fact, for many years Windform materials have been used in the most advanced industrial sectors, such as motorsport, aerospace, UAVs and now are proving to be also suitable for high-performance props.

Specifically, the carbon fibre filled Windform XT 2.0 (manufacturing material for the pit parts), the glass fibre filled Windform GT (visor), and the rubber-like thermoplastic elastomer Windform RL (cat's eye) have been chosen for their exceptional mechanical properties and suitability in diverse applications.

The materials are part of the Windform TOP-LINE range for selective laser sintering process: Windform XT 2.0 is a Carbon fibre filled composite, Windform GT is a glass fibre filled, and Windform RL is a thermoplastic elastomer.

The film production team expressed satisfaction with CRP Technology's contribution, acknowledging the company for availability, efficient production, and timely deliveries. Additionally, they appreciated the quality of the 3D printed components, emphasising CRP Technology's dedication to providing effective solutions.

This collaboration illustrates CRP Technology's commitment to advancing industrial 3D printing and reinforces its position as a reliable partner for innovative projects, even in the dynamic film production landscape. 

Above 3D printed visor in CRP composite Windform GT, assembly test (on left) and helmet built on the scene on actor and dummy

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March 2024



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Nuovo materiale per la stampa 3D

Il service di stampa 3D **CRP Technology** introduce nel mercato dell'Additive Manufacturing un nuovo materiale per la stampa 3D professionale Powder Bed Fusion/Sinterizzazione Laser Selettiva, il Windform SL. Questo materiale, il dodicesimo della gamma Windform TOP-LINE, costituisce un importante avanzamento nel settore. Windform SL è un composito a base poliammidica di colore nero, rinforzato con fibre di carbonio, molto leggero (la sigla "SL" indica "Super Light") con una densità di 0,87 g/cc. Questa caratteristica, unita al rinforzo in fibre di carbonio, rende Windform SL un materiale premium unico, leggero e rigido allo stesso tempo. L'introduzione sul mercato del Windform SL, che segue di pochi mesi il lancio del secondo materiale elastomerico di

CRP Technology (Windform TPU) e undicesimo materiale della TOP-LINE, conferma la continua spinta innovativa dell'azienda nel mondo della stampa 3D.

Windform è particolarmente adatto per la produzione di prototipi funzionali e componenti finiti nel settore degli UAV/UAS, nonché per applicazioni che richiedono una combinazione di leggerezza, rigidità e resistenza termica.

La HDT 182 Mpa di 182,5 °C insieme ad elevati valori di Modulo Elastico specifico, Carico di Rottura specifico e Resilienza (Charpy e Izod) sono tra i punti chiave del Windform SL. Queste caratteristiche gli conferiscono infatti la capacità di mantenere stabilità strutturale sotto sollecitazioni intense, anche in temperatura, garantendo prestazioni affidabili in con-

testi impegnativi. La finitura superficiale post-processo è altrettanto notevole, con valori di Ra di 5,44 µm dopo il processo SLS, 1,56 µm dopo la finitura manuale e 0,83 µm dopo la lavorazione CNC, garantendo superfici lisce e precise.





BNN



Business United States

CRP USA Ushers in New Era with Chris Brewster as CEO, Targets Advanced 3D Printing Growth

CRP USA announces Chris Brewster as its new CEO, promising a future of innovation and growth in 3D printing technologies across key markets.

Rizwan Shah
01 Mar 2024 23:52 EST

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CRP USA Ushers in New Era with Chris Brewster as CEO, Targets Advanced 3D Printing Growth

CRP USA, a trailblazer in the field of advanced 3D printing services, has officially announced the appointment of Chris Brewster as its new Chief Executive Officer. With a diverse background in manufacturing across several key industries, Brewster is set to steer CRP USA into a future ripe with innovation and growth. Effective January 29, 2024, his expertise in space, aerospace, military, medical, research, and industrial markets is anticipated to catalyze the company's expansion and reinforce its commitment to customer satisfaction, sustainability, and cutting-edge technology.

Strategic Leadership for Expansive Growth

Chris Brewster's journey to the helm of CRP USA is marked by a series of successful leadership roles within the manufacturing sector. At Cornell Dublier, he spearheaded initiatives to realign the business with customer needs, launched products in new markets, and fostered partnerships to advance Nuclear Fusion Energy technology. Brewster's appointment comes at a time when CRP USA is poised for significant growth, leveraging the capabilities of the Windform family of high-performance composites to explore innovative applications in additive manufacturing.

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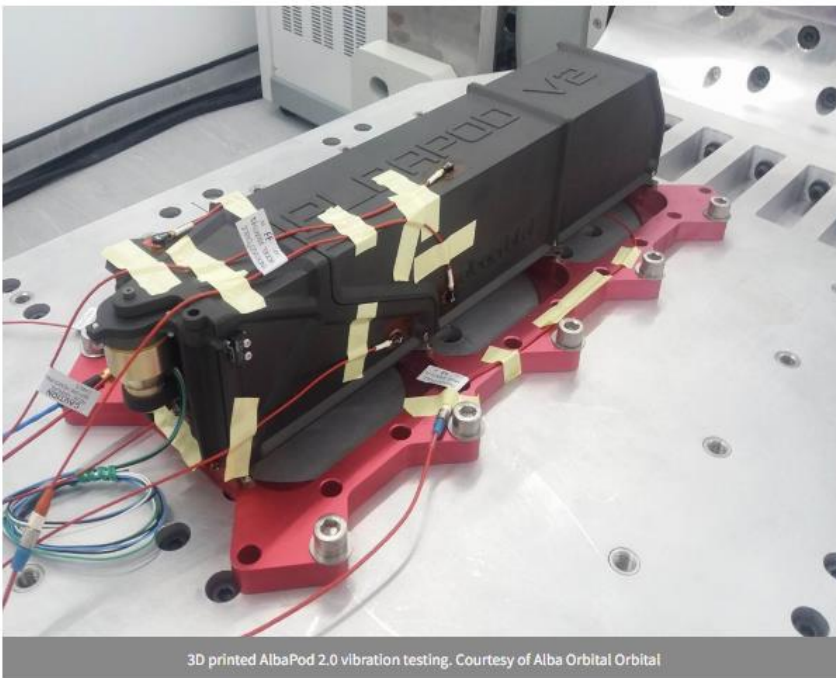


Aerospace Manufacturing



Cutting-edge 3D printing solutions at Space-Comm Expo

5 MARCH 2024 • IN NEWS



3D printed AlbaPod 2.0 vibration testing. Courtesy of Alba Orbital Orbital

CRP Technology, a leading 3D printing service bureau known for its Windform range of composites for SLS process, has announced its participation in the upcoming edition of Space-Comm Expo.

This marks the first time that CRP Technology will attend this prestigious event, demonstrating its commitment to advancing the aerospace industry through innovative additive manufacturing solutions.

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Visitors to CRP's booth will have the opportunity to learn about the latest advancements in the aerospace sector achieved through professional 3D printing and the utilisation of Windform high-performance composite materials.

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AMGF



CRP Technology & Hexadrone, 3D-printed Tundra-M professional drone for industrial and multi-purpose tasks

Website Link : <https://www.crptechnology.com/>
By CRP Technology

Industry: Automotive & Mobility

Technology: Selective Laser Sintering

Material: Windform® SP and Windform® XT 2.0

Machine: A medium-frame SLS 3D printer with digital scanning

CRP Technology & Hexadrone, 3D-printed Tundra-M professional drone for industrial and multi-purpose tasks

Innovative solutions soar: 3D-printed drone Tundra-M elevates efficiency by redefining industrial versatility.



Description

3D printing has ushered in a new era of drone manufacturing where precision meets innovation. Tundra-M drone was manufactured by two companies: CRP Technology and Hexadrone. Due to this partnership, the first fully modular and easy-to-use drone for industrial and multi-purpose tasks was created. This drone is extremely adaptable to meet the needs of any profession while making operational conditions easier to maintain. Some of the most essential parts of the drone were composed of two Windform® materials, which have mechanical and thermal properties to resist extreme weather conditions. The body of the drone and the four removable and scalable arms were manufactured with the composite polyamide-based material carbon filled Windform® SP (arms) and Windform® XT 2.0 (body). The Windform® composite materials boast the following advantages: moderate price, lightweight density, neutral color and texture suitable for prototypes, and moisture resilience. The body frame comprises the main frame plus a removable top lid containing the brain of the Tundra-M. Furthermore, the arms are composed of motor supports, removable arms, and an interlocking base, allowing the user to easily tighten the four arms with the support of a patented "tension ring". This stiff system allows the user to connect and disconnect the interchangeable arms on a discretionary basis. As a result, the implementation of SLS 3D printing technology helped to meet the project requirements, such as a fast iteration process, the ideal ratio between structural strength and weight, acceptable consistent results, and the opportunity to combine multiple functionalities from one unique part.



ETMM



Additive Manufacturing

'FERRARI' MOVIE

High-octane storytelling with 3D printing technology

Michael Mann's 'Ferrari' film delves into the life of Enzo Ferrari, capturing the essence of his legacy and innovation in car racing. Utilising CRP Technology's cutting-edge 3D printing, the movie features authentically crafted props that mirror Ferrari's pioneering spirit.

Nestled in the soul of Modena, a city echoing with the thunderous symphony of engines and steeped in the storied tradition of automotive prowess, the eclectic and innovative filmmaker Michael Mann assumed the directorial helm to breathe life into the enthralling saga of Enzo Ferrari, the mastermind behind Ferrari cars.

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Indeed, applying cutting edge additive manufacturing techniques and employing its advanced Windform materials for laser sintering which is well known amongst the Motorsports key leaders, CRP Technology contribut-

3D printed visor for the helmet in glass fiber reinforced composite Windform GT, assembly test (on left) and helmet built, on the scene on actor and dummy (on the right).



Source: CRP Technology

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Manufacturing Tomorrow



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Innovative 3D Printed Orthoses in Windform GT to Shine at SuperPower Design Exhibition

Visit <https://www.crptechnology.com/> for further information

On display from March 24th to August 25th at the CID in Grand-Hornu, Belgium. The devices in Windform GT 3D printed by CRP Technology for MHOX offer unmatched performance and comfort through advanced material, manufacturing process and generative design

03/18/24, 05:47 AM | Additive & 3D Printing, Engineering | CRP Technology

The upcoming SuperPower Design exhibition is set to showcase groundbreaking advancements in design and technology, and at its forefront will be the spotlight on 3D printed orthoses manufactured from Windform GT material. Hosted at the prestigious Centre for Innovation and Design (CID) in Grand-Hornu, Belgium, the event will run from March 24th to August 25th, 2024.

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Unlocking the Potential of 3D Printing

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Manufactured by the 3D printing service bureau CRP Technology on behalf of MHOX, these custom-made orthoses represent a pinnacle in orthotic innovation. Utilizing Windform GT, a glass fiber reinforced composite material specifically engineered for Selective Laser Sintering (SLS), these orthoses boast exceptional thermal and mechanical properties. With a density of 1.19 g/cc, HDT at 1.82 MPa of 169.4°C, tensile strength of 56.21 MPa, elongation at break of 14.82%, and a melting point of 193°C, Windform GT ensures durability, flexibility, and performance unparalleled in traditional orthotic materials.

These orthoses transcend conventional boundaries by offering mass customization through generative design by MHOX. Enabled by advanced 3D printing technology and pioneering manufacturing material, they are tailored to honor the unique characteristics of each patient, providing enhanced physical performance while maintaining utmost comfort and functionality including body adaptation, proper movement control, waterproofness, strength-to-weight ratio, flexibility, and high aesthetic output.

Selected for display at the SuperPower Design exhibition, these



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Ortesi generative in composito stampato 3D alla mostra SuperPower Design

COMPOSITI STAMPA 3D

18 Marzo 2024 | Redazione

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Notizie da Il Progettista Industriale

- Osservatorio MEC SPE: rilanciare il manifatturiero con il PNNR
- MICROingranaggi ha integrato il callettatore a tutta la sua gamma di riduttori con flange NEMA
- MEC SPE: Transizione digitale ed energetica, cuore della fiera

Le ortesi generative di MHOX, realizzate dal service di stampa 3D **CRP Technology** nel suo materiale composito **Windform GT**, sono state selezionate per la collettiva SuperPower Design.

Ospitata dal 24 marzo al 25 agosto 2024 presso il prestigioso **Centro per l'Innovazione e il Design (CID)** di Grand-Hornu, in Belgio, la mostra si prefigge di indagare come il design sia diventato uno strumento per migliorare le nostre capacità fisiche, intellettuali ed emotive.

In particolare, saranno esposte un'ortesi per deficit dei muscoli peronei e un'ortesi per la mano (nella foto d'apertura, ndr), entrambe prodotte con Windform GT. Questi dispositivi sono realizzati attraverso un innovativo sistema di personalizzazione, strutturato nelle tre fasi di: **scansione delle geometrie corporee** del paziente, generazione del **modello 3D personalizzato** dell'oggetto da produrre e sua realizzazione tramite **processo di stampa 3D**. Questo sistema è caratterizzato da precisione, rapidità e performance elevate. MHOX ha gestito le prime due fasi del sistema, sviluppando e utilizzando un software proprietario.

Le caratteristiche del processo di stampa 3D e del materiale utilizzato

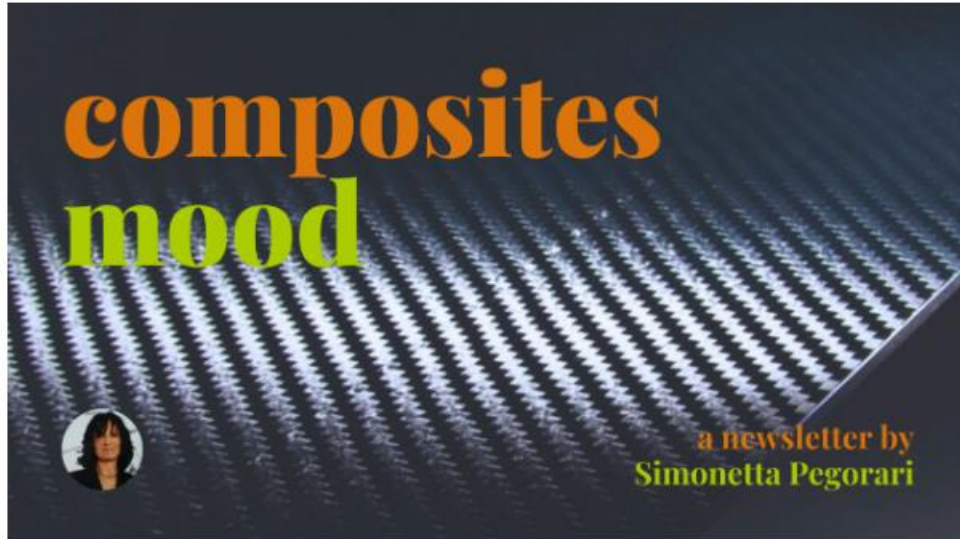
Poiché il design da realizzare richiedeva un sistema di stampa 3D professionale e un materiale innovativo di alta gamma, MHOX ha affidato la terza fase della procedura (la stampa delle ortesi) a CRP Technology, che ha utilizzato il processo di stampa 3D della **Sinterizzazione Laser Selettiva (SLS)** e il già citato materiale della sua gamma Windform.

Windform GT è un **composito termoplastico rinforzato con fibre di vetro**. Con una densità di 1,19 g/cc, HDT a 1,82 MPa di 169,4°C, resistenza alla trazione di 56,21 MPa, allungamento alla rottura del 14,82% e un





Composites Mood newsletter



Composites Mood | Issue #6



Simonetta Pegorari

Consultant to the composite materials industry & technical journalist at JEC Group [7 articoli](#)

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19 marzo 2024

What's next?

In the upcoming **SuperPower Design Expo** that will take place in **Boussu, Belgium**, **CRP Technology S.r.l.** will be showcasing their orthoses, manufactured from **Windform GT** material, a glass fiber reinforced composite material.

These orthoses, a groundbreaking innovation for **additive manufacturing applied to the medical field**, will be featured during the event, which will take place from **March 24th to August 25th**.

Segnala

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3D Printing Industry



Italy-based 3D printing company CRP Technology will be exhibiting its orthoses crafted from Glass Fiber fiber-reinforced thermoplastic Windform GT material at the SuperPower Design exhibition.

The exhibition will be held from March 24th to August 25th, 2024, at the Centre for Innovation and Design (CID) in Grand-Hornu, Belgium. Featured in the exhibits are orthoses tailored for drop foot and hand impairments, developed in collaboration with medical experts and generative design studio MHOX.



Generative and bespoke orthoses. Photo via CRP Technology.

3D printed orthoses

Orthoses are medical devices designed to support, align, correct, or improve the function of parts of the body. They are often used to alleviate pain, provide stability, or assist with movement. Last month, metal AM company AddUp collaborated with

