

PRIZNANJA *Slovenija* INOVATIVNA

Z novimi tehnologijami do neba

Inovacije Gorenjske regije

Innovations of Gorenjska region



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Alpineon d.o.o., Škrlj d.o.o.

RoboCUT **RoboCUT**

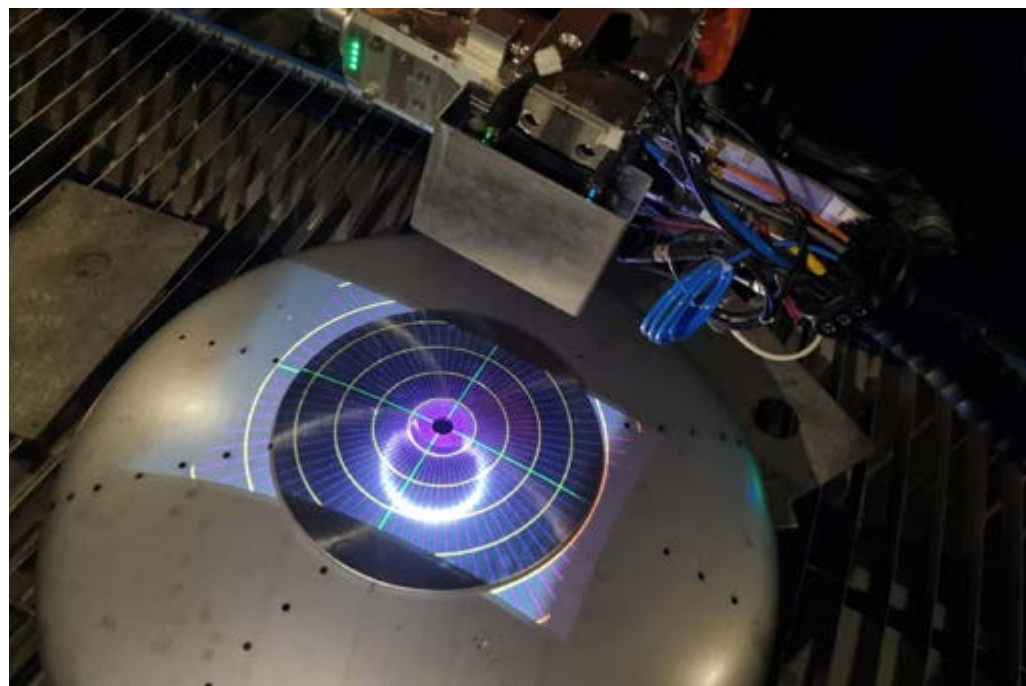
Srebrno priznanje
[Silver Innovation Award](#)

Inovatorji/Innovators:

dr. Mario Žganec, dr. Aleš Mihelič, dr. Stanislav Gruden, dr. Boštjan Vesnicer, dr. Žiga Golob, dr. Jaka Kravanja, dr. Jerneja Žganec Gros (Alpineon d.o.o.)
dr. Marko Likon, Miha Sirk, Bogdan Mužina, Gregor Gergolet, Marko Blažko, Marko Šrkli, Kristjan Pelicon, Marko Bajc, Roman Horvat (Škrlj d.o.o.)

Procesna inovacija RoboCUT predstavlja inovativno rešitev za učinkovito in hitro prilagodljivo avtomatizacijo ročnih procesov razreza nestandardiziranih obdelovancev, predvsem takih, ki dimenzijsko odstopajo od referenčnih modelov, za kar na trgu ni učinkovitih rešitev. Pri tem je bilo razvitih več novih prebojnih rešitev, ki predstavljajo pomemben napredek na področju stanja tehnike. Inovacija izkazuje številne ugodne vplive na okolje in omogoča zeleni prehod.

The RoboCUT process innovation enables effective automation of manual cutting processes of non-standardized work pieces that geometrically differ from their reference 3D models, for which there are no existing solutions on the market. The innovation boasts several new breakthrough solutions resulting in significant technological advances. The innovation exhibits multiple beneficial effects on the environment and facilitates green transition.



Caretronic d.o.o.

Pametni varovalni sistem SeniorCarePro

SeniorCarePro Letting older people keep their independence, while still feeling safe.

Inovatorji/Innovators:

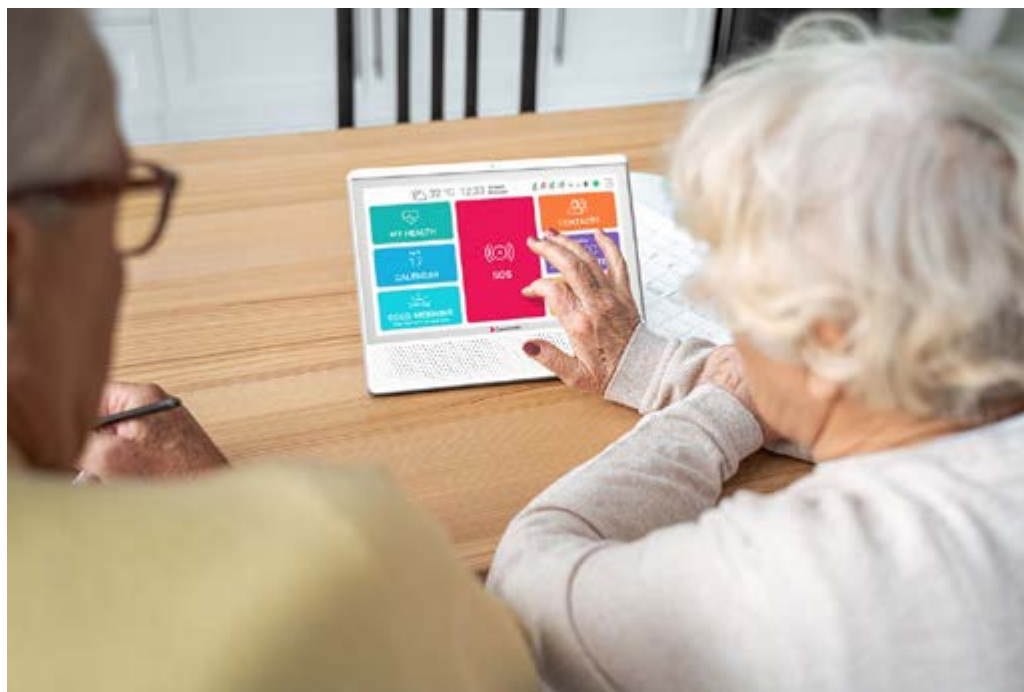
Andraž Krajnc, Evelin Krajnc, Darja Perko

Srebrno priznanje

Silver Innovation Award

SeniorCarePro je celovit sistem za varno in pametno oskrbo starejših, ki vključuje pametno zapestnico, prikazovalnik z zaslonom na dotik, IoT omrežje in oblačno platformo. Omogoča spremljanje vitalnih znakov, zazna padce, digitalizira razdeljevanje zdravil in izboljšuje komunikacijo z osebjem. Sistem je enostaven za uporabo in starejšim omogoča bivanje v domačem okolju.

SeniorCarePro is a comprehensive system for safe and smart elderly care, combining a smart wristband, a touchscreen display, an IoT network, and a cloud-based platform. It enables monitoring of vital signs, detects falls, digitizes medication dispensing, and improves communication with caregivers. The system is easy to use and allows older adults to continue living independently in their own homes.



Domel d.o.o.

Integracija procesa odprtega inoviranja v razvojne procese korporacij Agile development and radical/distributive innovation in Corporation

Inovatorji/Innovators:

dr. Janez Rihtaršič, Rok Slokar, Jure Bajt, Anže Kozjek, Janez Demšar, Urban Mrak, Anže Krajnik, Lovro Vrhunc, Jaka Kanc, dr. Gregor Vidmar

Srebrno priznanje

Silver Innovation Award

Organizacijska inovacija se nanaša na nadgradnjo korporativnega razvojnega procesa podjetja Domel d.o.o. s pristopom odprtega in agilnega razvoja novih produktov. Proces dopolnjuje redne razvojne procese z uvajanjem novih agilnih pristopov k iskanju in razvoju produkta, hkrati pa uporablja sinergije na področju kompetenc in opreme ter minimalno obremenjuje zaposlene v klasičnem razvojnem oddelku. Za identifikacijo, razvoj in trženje novega produkta tako ni potrebno ustanoviti »spin off« podjetja, pač pa se integrira in prispeva k rasti matičnega podjetja.

Organizational innovation refers to the upgrade of the corporate development process of Domel d.o.o. with an open and agile approach to new product development. The process complements the regular development processes by introducing new agile approaches to product conceptualization and development, while using synergies in the areas of existing competence and equipment and placing a minimal burden on employees in the classic development department. Thus, it is not necessary to establish a "spin-off" company to identify, develop and market a new product, but it is rather integrated and contributes to the growth of the parent company.



Domel d.o.o.

Razvoj EC thru flow sesalne enote z integrirano elektroniko

Development of EC thru flow vacuum cleaner motor with integrated electronics

Inovatorji/Innovators:

dr. Vladimir Štalec, Franjo Gorše, Primož Čufer, Žiga Hafner, Marjan Kokalj, Matjaž Kokalj, Anja Zanin, Mira Kokalj, Tomaž Pohleven, Tomaž Čemažar, Jure Bajt, Martin Kocijančič, Jure Pfajfar, Andrej Potočnik, Nataša Dolenec, dr. Janez Rihtaršič

Zlato priznanje

Gold Innovation Award

Predstavljamo elektronsko komutiran motor s povsem na novo razvitim turbinskim delom in integrirano krmilno elektronsko za sesalnike za suho sesanje. Izdelek je namenjen baterijskim sesalnikom napetosti do 36V za polprofesionalno in profesionalno področje. Ker je modularni pogonski sklop namenjen baterijskim sesalnikom so ključni parametri teža agregata (motor s turbinskim delom) in energijska učinkovitost le tega. Ob hudi cenovni konkurenci je to izdelek z vrhunskim dosežkom na področju energetske učinkovitosti, kar je naša prednost in nam daje status trend seterja.

We present an electronically commutated motor with a completely newly developed turbine part and integrated control electronics for dry vacuum cleaners. The product is intended for cordless vacuum cleaners with voltages up to 36V for semi-professional and professional use. Since the modular drive unit is intended for cordless vacuum cleaners, the key parameters are the weight of the unit (motor with turbine part) and its energy efficiency. With fierce price competition, this is a product with a top achievement in the field of energy efficiency, which is our advantage and gives us the status of a trendsetter.



Domel d.o.o.

Kroglični razbijalec Millmix 30

Bead beater Millmix 30

Inovatorji/Innovators:

dr. Primož Vidic, Matija Pintar, Polde Benedik, Tomaž Cankar, Urban Polak, Štefan Jelovčan, Vilko Šmid, Matej Galjot, Primož Habjan, Boris Osenčič, Janja Mesec, Ladi Galjot

Zlato priznanje

Gold Innovation Award

Več kot desetletna prisotnost na trgu krogličnih razbijalcev z enim resnim nemškim konkurentom in številnimi kitajskimi sledilci so povod, da svoje izkušnje trend setterja vgradimo v nov aparat. Rezultat 15 mesečnega razvoja je Millmix 30, najučinkovitejši aparat med poznanimi, z več vključenimi inovacijami, ki zagotavljajo visoko dodano vrednost, uporabnikom pa zagotavljajo izredno učinkovito in dokaj tiho napravo za zanesljivo in dolgotrajno uporabo.

With over a decade of presence in the ball mill market, alongside one serious German competitor and numerous Chinese followers, we've taken the opportunity to integrate our trendsetting experience into a new device. The result of 15 months of development is the Millmix 30—the most efficient machine among the known ones, featuring several innovations that deliver high added value and offer users an exceptionally effective and relatively quiet device for reliable and long-term use.



Ekoling d.o.o.
EkoFloat
EkoFloat

Srebrno priznanje
Silver Innovation Award

Inovatorji/Innovators:

Blaž Grilc, Matjaž Pavlinjek, Daniel Dovjak, Nikolaj Orasche, Nuša Pavlinjek Slavinec, Mojca Šekoranja, Valentina Benkovič

EkoFloat je napreden horizontalni flotacijski čistilec(DAF), zasnovan za učinkovito obdelavo močno onesnaženih industrijskih odpadnih voda, ki nastanejo pri reciklaži odpadne embalaže. Z inovativno oblikovanim separatorjem in kompaktno zasnovo zagotavlja visoko zmogljivost čiščenja ob optimizaciji porabe energije in kemikalij. Gre za energetske učinkovit in okolju prijazen sistem, ki zmanjšuje stroške obratovanja ter prispeva k trajnostnemu razvoju industrije. Prečiščena tehnološka voda se lahko ponovno uporabi, kar zmanjšuje vodni odtis in pripomore k učinkovitejšemu upravljanju vodnih virov.

EkoFloat is an advanced horizontal flotation purifier (DAF) designed for efficient treatment of highly polluted industrial wastewater generated during the recycling of waste packaging. With an innovatively designed separator and compact construction, it ensures high cleaning performance while optimizing energy and chemical consumption. It is an energy efficient and environmentally friendly system that reduces operating costs and contributes to the sustainable development of the industry. Treated process water can be reused, reducing the water footprint and improving water resource management.



Aplikacija je zasnovana za hitro in natančno določanje optimalne velikosti sončne elektrarne in hranilnika na osnovi najnovejšega omrežninskega sistema in temelji na 15 min profilu porabe električne energije končnega odjemalca. Z uporabo naprednih algoritmov analizira ključne podatke, kot so poraba električne energije, sončna obsevanost ter omogoča prilagoditev glede na specifične pogoje uporabnika (obračun glede na cene energije, način krmiljenja naprav). Namenjena je odjemalcem in investitorjem, ki želijo sprejeti premišljene odločitve in optimizirati svojo investicijo v obnovljive vire.

The application is designed to quickly and accurately determine the optimal size of a solar power plant and storage system based on the latest grid system and a 15-minute profile of the end-user's electricity consumption. Using advanced algorithms, it analyzes key data such as electricity consumption and solar exposure, and allows for adjustments based on the user's specific conditions (according to different energy prices, battery control systems). It is intended for consumers and investors who want to make informed decisions and optimize their investment in renewable energy sources.

The screenshot shows a web form titled "Novi uporabnik" (New user) with several input fields. The fields are: "Ime in priimek" (Name and surname) with value "Blaž Dobravec", "Številka računa" (Account number) with value "1234", "Ime sončne elektrarne" (Name of solar power plant) with value "Blaž", "Ime baterije" (Name of battery) with value "Blaž", "Vredn. tipa priključka" (Value of connection type) with value "17", "Vredn. tipa baterije" (Value of battery type) with value "17", "Vredn. tipa sončne elektrarne" (Value of solar power plant type) with value "17", "Vredn. tipa baterije" (Value of battery type) with value "17", "Vredn. tipa sončne elektrarne" (Value of solar power plant type) with value "17", "Vredn. tipa baterije" (Value of battery type) with value "17", "Vredn. tipa sončne elektrarne" (Value of solar power plant type) with value "17", "Vredn. tipa baterije" (Value of battery type) with value "17". There is a "Dobavljeno" (Delivered) button at the bottom.



Iskraemeco d.d.

IE.7 RC – Celovita rešitev za opazovanje in krmiljenje NN omrežja

IE.7 RC - Comprehensive solution for low-voltage (LV) network monitoring and control.

Inovatorji/Innovators:

Nina Seifert, Ludvik Kumin, Adi Handžar, Miha Skalar, Bojan Arzenšek, Amadej Pavšič, Uroš Bizjak

Zlato priznanje

Gold Innovation Award

IE.7 RC je napredni pametni merilnik, ki združuje merjenje kakovosti električne energije (EN 50160), opazovanje NN omrežja in lokalno upravljanje naprav prek EDGE modula. Omogoča neinvazivno montažo, analitiko v realnem času in krmiljenje porabnikov (PV, EV, TČ) – vse v eni napravi. Naprava je cenovno ugodna in skupaj z neinvazivno montažo omogoča masovno uvedbo v celotnem distribucijskega omrežju in njegovo proaktivno vodenje.

IE.7 RC is an advanced smart meter that combines power quality measurement (EN 50160), low-voltage (LV) network monitoring, and local device control via an EDGE module. It enables non-intrusive installation, real-time analytics, and control of loads (PV, EV, heat pumps) – all in a single device. Its cost-effectiveness and non-intrusive installation make it suitable for large-scale deployment across the distribution network and enable proactive grid management.



Logar trade d.o.o.

Polnilna pipa za med brez kapljanja

Non-drip honey filling tap

Inovatorji/Innovators:

Zdravko Logar

Priznanje za prebojno invencijo

Breakthrough invention award

Inovacija predstavlja polnilno pipo, zasnovano posebej za goste in lepljive medije, kot je med. Njena ključna prednost je popoln rez brez kapljanja, kar pomeni, da se po zapiranju pipe ne pojavi nezaželeno kapljanje, kot je to običajno pri obstoječih rešitvah. Uporabniku zagotavlja čistočo, natančnost doziranja in zmanjša tveganje za kontaminacijo izdelka. Primerna je za širok spekter industrij – od prehranske do kemične.

The innovation is a non-drip filling tap specifically designed for thick and sticky substances such as honey. Its key advantage is a clean cut with no dripping, meaning that after the tap is closed, no unwanted dripping occurs, unlike with existing solutions. It ensures cleanliness for the user, precise dosing, and reduces the risk of product contamination. It is suitable for a wide range of industries—from food to chemical.



LTH castings d.o.o.
metaFacturing AI
metaFacturing AI

Inovatorji/Innovators:
Nejc Košir, Urban Repanšek, Peter Šifrer

Srebrno priznanje
Silver Innovation Award

Inovacija v projektu Metafacturing AI je integracija metod umetne inteligence in deklarativnega programiranja za zaznavanje napak v proizvodnji tlačno litih komponent. Sistem omogoča 100% sledljivost in analizo vsakega posameznega ulitka glede na dejanske procesne pogoje. Z ločenim pristopom h klasifikaciji “dobrih” in “slabih” primerov ter uporabo naprednih algoritmov (npr. Answer Set Programming, Constraint Logic Programming) projekt omogoča natančnejše napovedi napak že med samim litjem.

The innovation within the Metafacturing AI project lies in the integration of artificial intelligence methods and declarative programming for defect detection in the production of high-pressure die cast (HPDC) components. The system enables 100% traceability and detailed analysis of each individual casting, based on the actual process conditions. By applying a separate classification approach for “good” and “bad” parts, and leveraging advanced algorithms such as ASP and CLP, the project allows for more accurate defect predictions already during the casting process.



M SORA d.d.

Window Care Pregled Window Care Check

Inovatorji/Innovators:

dr. Aleš Ugovšek, Barbara Šubic, Dejan Lapanja, Liza Križnar, Marko Bertoncelj, Marko Kopač

Srebrno priznanje

Silver Innovation Award

Eden največjih strahov uporabnikov lesenih oken je, da jih bo treba čez nekaj let ponovno premazovati ali da bodo strohnela. Hkrati je naš planet preplavljen z novimi izdelki in odpadki. S preventivnimi servisnimi pregledi podaljšujemo življenjsko dobo oken, zagotavljamo občutek varnosti, vzdržujemo stik z uporabniki in ohranjamo kakovost naših izdelkov. S tem naslavljamo najvišjo obliko trajnosti – “reduce”, saj preprečujemo prezgodnjo zamenjavo. Obenem ustvarjamo nov vir prihodkov in smo prvi v Sloveniji s tovrstno storitvijo!

One of the biggest fears of people who use wooden windows is that they will need to be recoated in a few years or that they will rot. At the same time, our planet is awash with new products and waste. Preventive maintenance services extend the life of our windows, provide a sense of security, keep in touch with our users and maintain the quality of our products. In doing so, we address the highest form of sustainability - “reduce” - by preventing premature replacement. At the same time, we are creating a new source of revenue and are the first in Slovenia to offer this service!



Metron inštitut, Solvera Lynx d.o.o., Tigus d.o.o.

Bat2Life

Bat2Life

Inovatorji/Innovators:

Andrejček Pečjak, Janez Korošec, Nejc Šter (Metron inštitut), dr. Kristina Bogataj, Žiga Hus (Solvera Lynx d.o.o.), dr. Tomaž Savšek (Tigus d.o.o.)

Srebrno priznanje

Silver Innovation Award

Inovacija je tipiziran baterijski shranjevalnik iz obnovljenih baterij električnih vozil, namenjen gospodinjskim in malim poslovnim odjemalcem. Preko napredne programske rešitve je integriran v fleksibilne sisteme obnovljivih virov energije (sončne, vetrne elektrarne) in pametne odjemalce, kot so polnilne postaje za električna vozila, s čimer se optimizira raba energije ter prispeva k trajnostnemu upravljanju električnih omrežij.

The innovation is a standardized battery storage system made from reconditioned electric vehicle batteries, designed for household and small businesses. Through an advanced software solution developed by the project partner, it is integrated into flexible renewable energy systems (solar, wind) and smart consumers, such as EV charging stations, optimizing energy use and supporting sustainable grid management.



SIJ Acroni d.o.o.

SIQUAL 6368: Zanesljivo jeklo, ki premika meje visokih temperatur in tlaka
SIQUAL 6368 reliable steel that pushes the limits of high temperatures and pressures

Inovatorji/Innovators:

Dejan Zgonc, Matic Bernik, Jan Foder, Stanislav Jakelj

Zlato priznanje

Gold Innovation Award

SIQUAL 6368 predstavlja popolnoma nov produkt v našem katalogu, razvit za izdelavo najzahtevnejših tlačnih posod. Sodelovanje interdisciplinarne ekipe znotraj podjetja je pripeljalo do odličnih končnih rezultatov, s katerimi smo kupca oskrbeli z naročilom, kljub izjemno kratkemu dobavnemu roku. Končna aplikacija tega produkta utrjuje SIJ Acroni med glavne dobavitelje specialne debele pločevine na globalnem trgu in potrjuje našo sposobnost prilagoditve potrebam trga.

SIQUAL 6368 represents a completely new product in our catalog, developed for the production of the most demanding pressure vessels. The collaboration of interdisciplinary teams within the company has led to excellent final results, with which we supplied the customer with the order, despite an extremely short delivery time. The final application of this product strengthens SIJ Acroni as one of the main suppliers of special heavy plate on the global market and confirms our ability to adapt to market needs.



SIJ Acroni d.o.o.

Razvoj nerjavnega jekla XM-19 za fuzijski reaktor - tehnologijo prihodnosti

Development of XM-19 stainless steel for fusion energy machine, type TOKAMAK – technology of the future

Inovatorji/Innovators:

dr. Boštjan Bradaškja, mag. Boštjan Pirnar, dr. Andrej Skumavc, Gregor Zupančič, Borut Lešnik, Robert Robič, Grega Stare, Sandro Kovač, Adin Silić, Jani Novak, Noel Gregori, Jasmin Huskić, Boštjan Smerke

Zlato priznanje

Gold Innovation Award

Jeklo XM-19 smo v SIJ ACRONI namensko razvili za izgradnjo testnega fuzijskega reaktorja tipa TOKAMAK. S prilagojeno kemično sestavo smo zagotovili ključne mehanske karakteristike v kriogenem temperaturnem področju, kot tudi pri povišanih temperaturah, ki so prisotne na mestu vgradnje materiala. Z inovacijo dodajamo svoj del v mozaik tranzicije globalnega odmika od uporabe fosilnih goriv, ter bodoče stabilne oskrbe z električno energijo ter omogočamo razvoj nove tehnologije, ki bo krojila prihodnost.

XM-19 steel was developed at SIJ ACRONI for the construction of a test fusion energy machine, type TOKAMAK. With an adapted chemical composition, we ensured key mechanical characteristics in the cryogenic temperature range, as well as at elevated temperatures present at the site of installation of the material. With this innovation, we are contributing to the transition of the global shift away from fossil fuels and to a future stable supply of electricity, and we are enabling the development of new technology that will shape the future.



SIJ Acroni d.o.o.

Skupina talil AF-3-S, za tvorbo ustrezne viskoznosti žlindre, ki je ključna za izdelavo vrhunsko čistega jekla

The AF-3-S slag agent to achieve appropriate slag viscosity, crucial for production top quality steel

Inovatorji/Innovators:

mag. Milan Klinar, Irena Kržič Mertelj, Grega Stare, Armin Pašić, Andraž Pongrac

Srebrno priznanje

Silver Innovation Award

V Jeklarni Bela pri procesiranju taline za ustrezno sestavo žlindre faze uporabljamo različna talila. Do obdobja izpred enega leta smo kot talilo uporabljali izključno jedavec (CaF_2), ki je mineral in ga pridobivamo v naravi. Z uporabo sintetičnega talila (AF-3-S), smo dosegli izredno pozitivne rezultate. Specifična poraba, kot strošek na enoto taline sta se izredno znižala. Kakovost izdelane taline je boljša, lažje obvladljiva in ponovljivo dobra.

In the Bela Steelplant, we use various slag agent when processing the melt to ensure the appropriate composition of the slag phase. Until a year ago, we used exclusively fluorspar (CaF_2) which is mineral and is obtained in nature. By using a agent (AF-3-S), we achieved positive results. The specific consumption and the cost per unit of melt have both decreased significantly. The quality of the produced melt is better, easier to control and reproducibly good.



SIJ Acroni d.o.o.

Optimizacija procesa v AOD konvertorju za zeleni prehod v trajnostno proizvodnjo

Optimization of the process in the AOD converter for the green transition to sustainable production

Inovatorji/Innovators:

mag. Armin Pašič, Andraž Pongrac, Milan Klinar, Grega Stare

Srebrno priznanje

Silver Innovation Award

Z inovativno optimizacijo procesa v AOD konvertorju smo zmanjšali nastajanje žlindre, ki v predstavlja neuporaben stranski produkt pri proizvodnji jekla. S prilagoditvijo ključnih parametrov smo dosegli nižjo porabo surovin, nižje stroške in manjši okoljski vpliv. Optimizacija izboljšuje učinkovitost proizvodnje ter prispeva k trajnostnemu razvoju jeklarske industrije.

With an innovative optimization of the process in the AOD converter, we have reduced the formation of slag, which is an unusable byproduct in steel production. By adjusting key parameters, we have achieved lower raw material consumption, reduced costs, and a smaller environmental impact. The optimization enhances production efficiency and contributes to the sustainable development of the steel industry.



Tab systems d.d.

SMARTI iCon

SMARTI iCon

Inovatorji/Innovators:

Aleš Šolar, Tilen Bergant, Martin Kjortoshev, Matej Panić, Matevž Peternel

Zlato priznanje

Gold Innovation Award

Industrijski sistem strojnega vida za štiristransko skeniranje napak in lastnosti na lesenih deskah vključuje mnoge inovacije. SMARTI iCon v primerjavi z do zdaj obstoječimi sistemi omogoča hitrejšo in bolj natančno skeniranje desk. Sistem omogoča hitrost transporta desk do 800 m/min z uporabo novo razvite lastne AI tehnologije in drugih algoritmov strojnega vida. Nove funkcije programske opreme omogočajo bolj napredno optimizacijo razreza in sortiranja desk, kar v proizvodnjem procesu predstavlja do 5% večje izkoristke v primerjavi z predhodnimi sistemi.

The industrial machine vision system for four-sided defect and feature detection on wooden boards incorporates numerous innovations. Compared to existing systems, SMARTI iCon enables faster and more accurate board scanning. The system supports board transport speeds of up to 800 m/min using newly developed proprietary AI technology and other machine vision algorithms. New software functions allow for more advanced optimization of cutting and sorting, resulting in up to 5% higher yield in the production process compared to previous systems.

