



Shape The Future of Surfaces With Celli.

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QR code to book a private consultation.



Surface Engineering at the Atomic Scale.

30
Years of PVD Engineering Mastery

1,000+
Global Installations

10+
Countries Served



Innovative Coating, Industrialized with Precision.

The Celli Story



Celli is the trusted partner of the world's leading industrial enterprises.



30+

Core Proprietary Patents

Celli maintains a robust IP barrier through 30+ core patents in plasma physics and thin-film deposition. Our proprietary R&D ensures that every system integrates exclusive technology in power supply stability and ionization efficiency that defines the industry's technical frontier.



30,000 m²

Manufacturing Infrastructure

Scale-driven precision. With over 30,000 m² manufacturing space, we synchronize large-scale production capacity with stringent quality-assurance protocols to meet the rigorous hardware standards of global Tier-1 industrial enterprises.



10+

Global Footprints

Active across 10+ international markets, Celli provides the technical backbone for elite manufacturing hubs. Our systems are engineered for diverse industrial environments, maintaining an international reputation for high-uptime and nanometer-scale precision.



1000+

Precise Installations

Battle-tested engineering excellence. With over 1,000 systems successfully deployed across diverse industrial sectors worldwide, Celli transforms advanced plasma physics into industrial-scale reality. Our equipment continuously delivers uncompromising process stability and relentless throughput for the world's most demanding production lines.



The Celli Edge

Engineering Without Compromise



Hybrid Plasma Technology

Integrating Cloud ARC, HiPIMS, and high-energy ion etching to deliver indestructible adhesion and ultra-dense films for the most demanding applications.



Nanometer-Precision Hardware Architecture

Closed-loop vacuum monitoring and multi-channel gas controls guarantee absolute environmental stability and flawless batch uniformity across complex geometries.



Unattended Intelligent Automation

Engineered for relentless mass production. One-touch recipes, dynamic parameter adjustments, and real-time monitoring completely eliminate human error.



Digital QC & Green Manufacturing

ERP-driven lifecycle traceability ensures rigorous quality control, while our zero-pollution, dry-process PVD fully complies with global green manufacturing standards.



Flexible Custom Engineering

We go beyond standard models. Chambers, process modules, and control logic are deeply customized to integrate seamlessly into your specific facility and throughput constraints.



Complete Turnkey Support

Delivering complete process architectures. We bridge the gap from laboratory proof-of-concept to full-scale mass production installation and lifetime remote maintenance.

Complete Lifecycle Support

From Initial Concept to
Stabilized Mass Production



Core Philosophy:

We don't just supply hardware; we engineer your entire production ecosystem. Celli provides a holistic, risk-mitigated pathway for companies transitioning from R&D prototypes to high-volume industrial manufacturing.

- Holistic
- Risk-Mitigated

The Celli Turnkey Framework

- 01

Strategic Process Consultation

Objective:
Maximizing Capital Efficiency and Production Yield.

We go beyond hardware delivery. Celli partners with your leadership to architect the optimal PVD coating solution aligned with your specific business objectives. By evaluating throughput requirements and material science challenges, we ensure your investment translates into a sustainable competitive advantage and market-leading performance.
- 02

Deployment Excellence & Technical Empowerment

Objective:
Seamless Integration and Rapid Vertical Ramp-up.

Our commitment to your facility is permanent. Celli provides a 3-Year Manufacturing Warranty backed by a 24/7 global technical response network. From lifetime remote troubleshooting and on-site maintenance to complex equipment relocation and hardware optimization, we safeguard your OEE (Overall Equipment Effectiveness) at every stage.
- 03

Holistic Support & 3-Year Quality Assurance

Objective:
Guaranteed System Integrity and Operational Uptime.

We don't just sell machines; we architect production reliability. Every Celli PVD system comes with a comprehensive 3-Year Quality Assurance guarantee, covering precision components and structural integrity. Our holistic support ecosystem includes pre-installation site auditing, customized operator training, and a proactive spare parts management program, ensuring that your investment remains at peak performance for decades.
- 04

Rapid-Response Logistics & Critical Spares

Objective:
Eliminating Unplanned Downtime.

Maintain your production momentum with Celli's high-velocity spare parts network. We supply components engineered to the exact original design specifications, ensuring perfect system compatibility. Our emergency logistics framework is optimized for rapid intervention, providing a robust safety net for continuous industrial-scale operations.
- 05

Collaborative R&D & Adaptive Retrofitting

Objective:
Future-Proofing Your Surface Technology.

In an era of rapid product cycles, Celli offers bespoke R&D collaboration to solve unique material challenges for next-generation products. Our Targeted Retrofit Services allow you to upgrade existing architectures with the latest technological "patches," extending equipment utility and enhancing capabilities while optimizing long-term CAPEX.

Extreme Durability

Multiplying Lifespans in Extreme Conditions



The Technology Engine

Advanced Ion Etching Preparation

Utilizes high-energy plasma bombardment for deep vacuum cleaning and micro-etching. This completely eradicates surface oxidation and impurities, achieving atomic-level activation to guarantee indestructible coating adhesion.

Cloud ARC+

Engineered for extreme hard coatings. Delivers exceptionally high ionization rates and rapid deposition. Optimized arc control drastically reduces macro-particle droplets, producing ultra-hard, highly wear-resistant coatings with superior structural integrity.

HiPIMS

The ultimate defense for precision machining. Leverages high-density plasma and controllable ion energy to deposit ultra-smooth, highly dense, and low-stress thin films at low temperatures. Perfectly matched for high-precision tools and complex molds.

Equipment

SP-1010A

Tool and Mold Hard Coating Series

Engineered with Arc Evaporation Technology (A) specifically for ultra-hard functional coatings.



Key Applications



Milling cutters and inserts



Precision hobbing cutters



High-load Stamping molds

The Celli Standard



Aesthetic Excellence

Durable Luxury for Everyday Life



The Technology Engine

High-Efficiency Magnetron Sputtering

Delivers rapid deposition and reaction rates. Our proprietary design overcomes target poisoning and abnormal glow discharge, perfectly depositing single metal, compound, and multi-layer films on diverse substrates with absolute color consistency.

Cloud ARC+

Features an advanced variable pulsed electromagnetic and permanent magnet architecture. It generates finer, faster, and wider arc spots to fundamentally suppress macro-particle droplets, ensuring an ultra-smooth and flawless decorative finish.

Deep Gas Ion Etching

The ultimate pre-deposition cleaning. Utilizes high-energy ion beams for large-area, deep-trench etching to eradicate impurities in complex grooves missed by standard cleaning. This maximizes atomic-level adhesion and minimizes defect rates.

AF Anti-Fingerprint & Hard Coating

Delivers exceptional hydrophobic properties with a water contact angle of 110°-118°. It provides an effortless "wipe-clean" anti-fingerprint surface while maintaining outstanding daily wear and scratch resistance.

Equipment

SP-1515AS

Multi-Function Decorative Series

Combining Arc (A) and Magnetron Sputtering (S) technologies for versatile, high-throughput decorative finishes.



Key Applications



Sanitary Ware:
Faucets, showerheads, and stainless steel sinks.



Hardware:
Architectural handles and premium fixtures.



Lifestyle:
Watch cases and luxury accessories.

The Celli Standard



Nanometer Precision

Next-Generation Surfaces for Smart Devices



The Technology Engine

High-Energy Ion Etching & Bias System

Equipped with a high-energy ion source and compound bias architecture. It performs deep plasma cleaning and atomic-level activation to establish ultimate base adhesion, completely eliminating peeling and flaking during extreme drop tests and daily wear.

Multi-Dimensional Sputtering Architecture:

Features multiple magnetron sputtering targets with flexible integration of MF, Pulsed DC, HiPIMS, and Cloud ARC+ systems. Exceptional ionization rates ensure ultra-dense, droplet-free films, perfectly balancing premium aesthetic textures with extreme scratch resistance.

Planetary Turntable & Low-Temp Deposition

Utilizes a precise revolution-and-rotation linked turntable system to guarantee 100% uniform coating on complex geometries like folding hinges. Our proprietary low-temperature deposition flawlessly accommodates sensitive substrates including metal, microcrystalline glass, and precision ceramics.

Equipment

SP-1912ASI



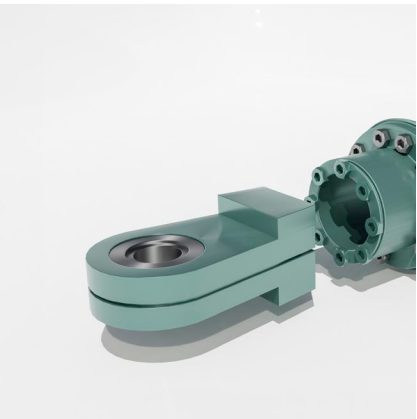
3C Coating Systems

Integrating Arc (A), Sputtering (S), and Ion Source (I) pre-cleaning for ultimate atomic-level adhesion and film purity.

Key Applications



Smartphone mid-frames and camera rings



Folding screen hinges and micro-mechanisms



Smartwatch cases and bands

The Celli Standard

Nanometer-Level Precision

Ultra-thin coatings that preserve exact assembly tolerances without any substrate deformation.

Sweat-Proof & Hypoallergenic

Premium finishes that resist oxidation from human sweat and daily chemical exposure, while remaining skin-friendly.



Micro-Kinetic Optimization

Ultra-smooth, low-friction surfaces that eliminate noise and stuttering in micro-moving hinge components.

Custom Electrical Tuning

Engineered for specific electrical insulation, conductivity, or EMI shielding requirements.

Driving Efficiency

Surface Engineering
for Automotive Innovation



The Technology Engine

Flexible Hybrid Deposition Architecture:

Breaking the limits of single-method deposition. This system flexibly integrates Filtered Arc Ion Plating, Unbalanced Magnetron Sputtering (UBMS), and PE-CVD based on extreme application demands. Its vast process adaptability flawlessly prepares premium functional coatings for the most complex tribological environments.

Proprietary Interlayer Architecture:

Redefining adhesion limits for carbon-based and solid lubricant coatings. Our exclusive transition interlayer technology firmly anchors DLC, GLC, ta-C, WS2, and MoS2 coatings to the substrate. It delivers astonishing adhesion while providing extreme hardness, ultra-low surface roughness, and a near-zero friction coefficient.

Equipment

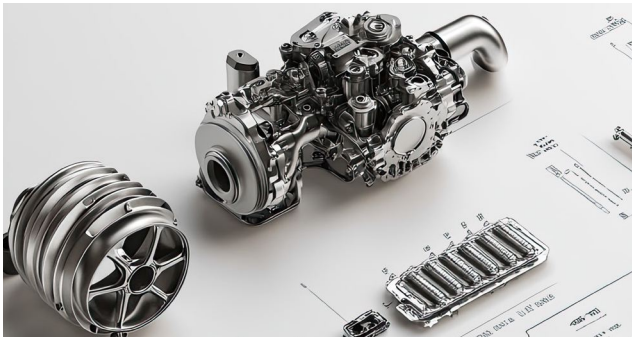
SP-1212AS

Automotive Coating Series

Dual Arc and Sputtering capabilities designed to meet both functional and high-end decorative automotive standards.



Key Applications



Engine Components:
Piston rings and valve lifters.



Exterior & Interior Trim:
Alloy wheels and ABS plastic components.

The Celli Standard



Powering the Clean Energy Revolution

Hydrogen & Fuel Cells



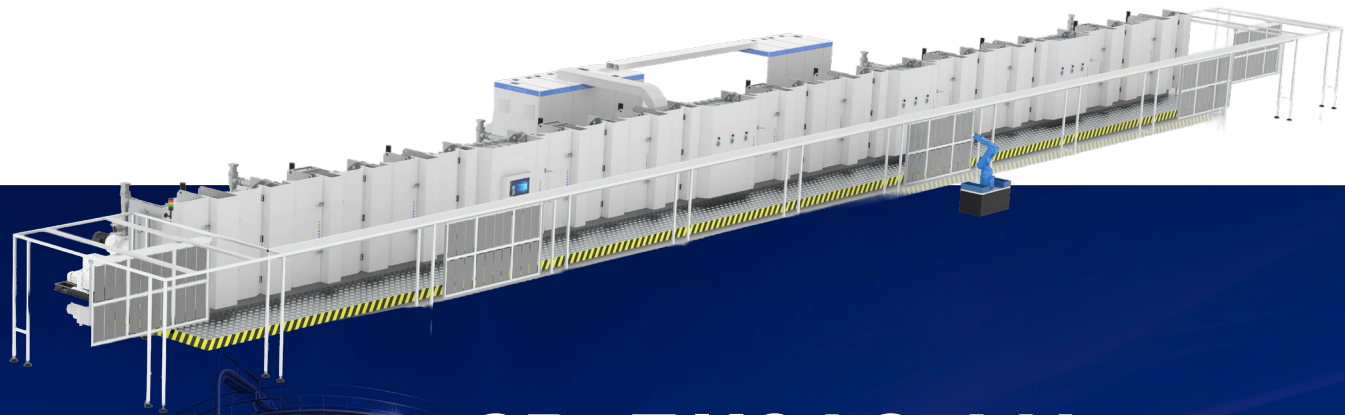
The Technology Engine

Enhanced Variable Magnetron Sputtering:

Utilizes advanced variable magnetic field sputtering. It maximizes ionization rates and provides ultimate control over the film growth process and plasma extension. It deposits ultra-dense, highly adhesive conductive and anti-corrosion composite films on metallic plates.

Cloud ARC+ Droplet Suppression:

Features a specialized magnetic field design tailored for hydrogen applications. It allows precise control of arc spot trajectories and speeds with massive coverage. By generating finer, faster arc spots, it fundamentally suppresses macro-particle droplets, ensuring a truly "zero-defect" protective coating.



Equipment

SP-5118AS-LH

H Series Continuous Inline Systems

A continuous inline system (LH) equipped with Arc and Sputtering, built for relentless, high-throughput continuous production.

Key Applications

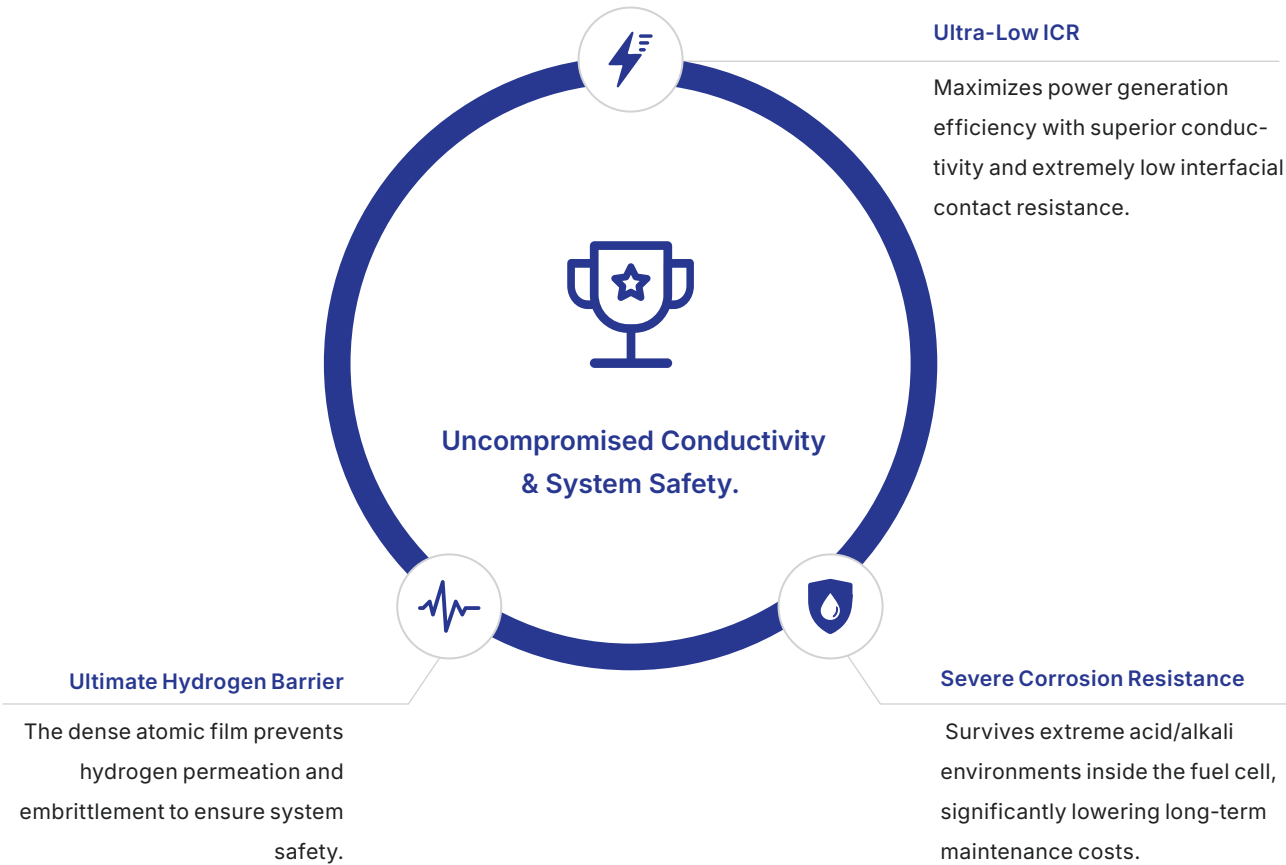


Hydrogen fuel cell metallic bipolar plates



PEM (Proton Exchange Membrane) electrolyzer plates

The Celli Standard



Configured for Your Production Reality

Example



The Celli Configuration Example:

The SP-1912ASI system perfectly integrates Arc (A), Sputtering (S), and Ion Source (I) technologies into a single highly versatile chamber, giving manufacturers the ultimate flexibility to achieve both indestructible adhesion and flawless surface aesthetics.



Every Celli system is identified by a specific engineering suffix, indicating the core plasma technologies integrated into the chamber architecture:

A

Arc Evaporation Technology:

Engineered for ultra-hard functional coatings. Utilizes high-energy arcs to vaporize targets, resulting in extremely dense, highly adhesive films. Ideal for extreme-wear environments like cutting tools and precision molds.

S

Magnetron Sputtering Technology:

The standard for nanometer precision. Delivers exceptionally smooth, droplet-free decorative and functional finishes. The ultimate choice for 3C electronics, high-end sanitary ware, and automotive trim.

I

Ion Source Technology:

Pre-deposition atomic-level preparation. Uses an ion beam to meticulously etch and clean the substrate surface in a vacuum, maximizing coating adhesion and overall film purity.

LH

Inline / Continuous System:

Built for relentless throughput. Substrates move continuously through the system without breaking the vacuum. Designed specifically for high-volume, continuous production lines such as hydrogen bipolar plates.

Engineering Responsibility

Global Standards
for Sustainable Industry



Core Philosophy:

We believe that technical excellence is inseparable from environmental stewardship.

Celli systems are designed to minimize ecological footprints while maximizing industrial compliance and safety.

01

The ESG Advantage: A Green Manufacturing Alternative

Celli's PVD technology is a direct solution for companies looking to meet their Environmental, Social, and Governance (ESG) goals by replacing traditional "dirty" manufacturing processes.



Zero-Waste Substitution:

Our vacuum coating technology serves as a sustainable, "dry" alternative to traditional electroplating. This transition eliminates the use of hazardous chemicals (such as hexavalent chromium) and the production of toxic liquid waste.



Resource Efficiency:

High-utilization target technology and advanced power management minimize material waste and energy consumption per cycle.



Clean Technology:

Zero emission of harmful gases or hazardous waste, supporting a circular economy and safer workplace environments.



02

Quality Management & Technical Certification

Our manufacturing infrastructure operates under a rigorous quality-first framework, ensuring that every system delivered meets international benchmarks for precision and safety.

-  Quality-First
-  Meets International Benchmarks



ISO 9001:2015 Certified:

Comprehensive management across R&D and assembly ensures total process traceability and consistent output quality.



CE Compliance:

Celli maintains a commitment to global safety benchmarks, offering CE-compliant solutions for our core industrial machinery line.



Verified Integrity:

Systems are validated by national inspection centers for vacuum equipment, confirming structural and mechanical performance excellence.



03

Corporate Compliance & Governance

Transparency and accountability are the bedrock of our international operations.



ERP-Driven Traceability:

Fully integrated ERP systems document every stage of procurement, design, and production, facilitating seamless client audits and regulatory reporting.



Strategic Innovation:

Recognized as a "Specialized and Innovative" industrial enterprise, we maintain strict ethical standards across our global supply chain.



Future-Ready Strategy:

Our mission is to lead the surface engineering industry toward a sustainable future, ensuring that every technical breakthrough reduces environmental impact.