

Technology & Product Portfolio

PeCVD & Plasma Nitriding Equipment for Components



	PfC RF 400	PfC PeCVD 400	PfC PeCVD 650	PfC N/DLC 800	Plasma Nitriding
Technology	PeCVD by RF 13.56 MHz	Hybrid PVD/PeCVD	Hybrid PVD/PeCVD	Hybrid Plasma Nitriding/PeCVD Plasma Nitriding	650 x 500 mm
Useful Size	400 x 400 mm	400 x 500 mm 2 Magnetrons	600 x 700 mm 2 or 4 Magnetrons	PfC N/DLC 650: 650 x 700 mm	PFN Box Nitrider: 650 x 850 mm
				PfC N/DLC 800: 800 x 900 mm	PFN Bell Furnace: 800 x 1200 mm
Cycle Time	2 µm: 3 h	2.5 µm: 3-5 h	2.5 µm: 3-5 h	50 µm Nitriding depth + 1 h	In relation with depth request
Coatings	DLC (C, H, Si) DLC + F DLC + N SiC, SiC + DLC, SiOX	Cr/DLC Cr/CrN/DLC WC/C Cr/CrN/WC/C	Cr/DLC Cr/CrN/DLC WC/C Cr/CrN/WC/C	Nitriding diffusion layer without white layer + DLC	Diffusion layer with or without compound layers
Properties	Low friction, high density, high compressive stress	Metal DLC coating, low friction, wear resistance	Metal DLC coating, low friction, wear resistance	Fatigue and wear resistance, low friction, corrosion resistance	Surface hardness
Applications	Components for racing, medical, decorative, plastic molds	Components for automotive, aircraft, hydraulic, textile, plastic molds, tooling	Components for automotive, aircraft, hydraulic, textile, plastic molds, tooling	Components for automotive, aircraft, hydraulic, textile, plastic molds, tooling	Components for automotive, aircraft, hydraulic, textile, molds & dies, tooling
Options	Pulsed DLC	Equipment for non conductive materials + DLC	Equipment for non conductive materials + DLC	Anti-corrosion coating	Active Screen 2017

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