

## Technology & Product Portfolio

### PVD Equipment for Hard Coating



	Pfc 300	Pfc 300L	Pfc 450	Pfc 540	Pfc 650	Pfc 900XL
Useful Size	300 x 400 mm	300 x 500 mm	450 x 500 mm	540 x 650 mm	650 x 500 mm	900 x 1000 mm
Spindles	4	4	4 or 8	5, 8, 9, or 10	7, 10, or 12	4, 6, 8, 12 or 16
Load	100 kg	150 kg	250 kg	1200 kg	700 kg	1200 kg
Qty / Batch						
Endmills 10 x 70	280	350	700	950	1050	2700
Hobs 120 x 150	8	12	24	30	36	96
Typical Cycle Time	3 h	3 h	3.5 h	4 h	4 h	6 h
Options	DLC	DLC Duplex	Duplex Plasma Nitriding + PVD DLC, Sputtering	Duplex Plasma Nitriding + PVD DLC, Sputtering	Duplex Plasma Nitriding + PVD DLC, Sputtering	Duplex Plasma Nitriding



**Easy to Operate**

**Efficient**

**Precise**

**Fast**

**Affordable**

**Low Running Cost**

**Locally Supported**

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### 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 Nitriders: 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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