






Model	PVD 350	PVD 780	PVD Road Runner	PVD Insert Coater	PA-CVD 650
Image					
Applications	Low to mid-volume Tooling Applications	Forming Tools	High volume Cutting Tools	Carbide Inserts	Components
Target market	Plasma zone designed for low to mid-volume tool quantities.	Plasma zone and layout designed for forming tools up to 1000 kg.	Rapid coating cycles for coating moderate to high volumes of cutting tools.	Rapid coating cycles and powerful heating capability for coating moderate to high volumes of carbide inserts.	Low temperature coating designed for low to mid-volume production.
Key points	Inexpensive, robust	Robust design for forming tools	Rapid cycles for high-end coatings, modular construction	Rapid cycles for high-end coatings, modular construction	Extremely smooth, wear and chemical resistant DLC coating
Typical coatings	TiN, AlTiN, CrN, TiCN, TiCrN, AlTiCrN	TiN, CrN, TiCN, AlTiN, TiCrN, AlTiCrN	TiN, AlTiN, CrN, TiCN, TiAlCN, AlCrN, TiCrN, AlTiCrN, Si-containing coatings	TiN, AlTiN, CrN, TiCN, TiAlCN, AlCrN, TiCrN, AlTiCrN, Si-containing coatings	ADLC version a-C:H
Technology	PVD	PVD	PVD	PVD	Pa-CVD
Typical loads	Shank tools Ø6 x 51mm = 784 Shank tools Ø12 x 151mm = 140 Hobs Ø80 x 180mm = 14 Hobs Ø120 x 280mm = 7	Up to 1000 kg	Shank tools Ø6 x 51mm = 3042 Shank tools Ø12 x 151mm = 1235 Hobs Ø80 x 180mm = 60 Hobs Ø120 x 280mm = 26	4000 CNMG Inserts	1m ² coated surface area
Typical cycle times	4 to 8 hours	4 to 8 hours	4 to 5 hours	4 to 5 hours	3 hours
Typical coating temperature	220-450° C	220-450° C	220-550° C	400-550° C	< 200° C
Plasma zone (mm)	Ø 450 x 600	Ø 780 x 850	Ø 700 x 730	Ø 700 x 730	Ø 800 x 650
Maximum load (kg)	350	1000	500	500	350
Cathode options	1 to 6 circular targets 63 or 100 mm. OD	1 to 9 circular targets 63 or 100 mm. OD	4 source positions, equipped with rectangular or 3 x Ø 100 mm targets	4 source positions, equipped with rectangular or 3 x Ø 100 mm targets	Not Applicable