

Multipurpose PVD Coating System

HIGH PERFORMANCE COATINGS

MpE 500



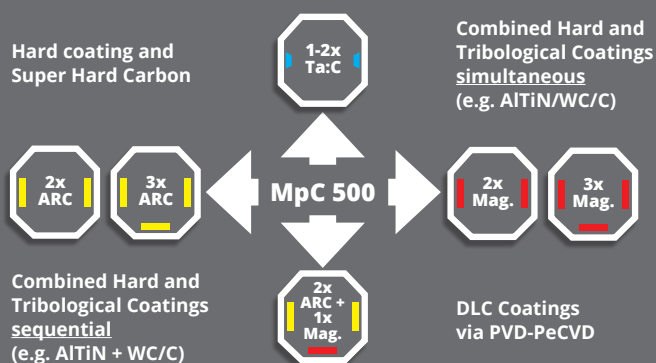
Focused on application -
Customizing to meet
your needs

HIGHLIGHTS

- HPIES High Performance Ion Etching System
- Flexible and productive
- Up to 3 different target materials
- Rapid target exchange
- Negligible coating thickness tolerance +/- 0,2
- Low running costs
- Various evaporation configuration

THROUGHPUT

- Useful coating volume: Ø 350 x H 500 mm
- Up to 4 batches / day – Cycle time 3 to 4 hrs
- Qty / batch:
 - end mills Ø10 x 70 mm: 360 pieces
 - drills Ø12 x 150 mm: 270 pieces
 - inserts: 1.980 pieces



INDIVIDUAL COATING PORTFOLIO

for:

INDIVIDUAL APPLICATIONS

- Monolayers
- Multilayers
- Gradient layers
- Nano layers
- Nanocomposites
- Duplex

- Cutting
- Gearing
- Precision components
- Forming
- Molding

A perfect combination for cutting applications

Easy to operate



Local support



Affordable



Low running cost



Precise



Short cycle time



Producing – HIGH PERFORMANCE COATINGS

Materials	Applications	Turning	Milling	Drilling	Tapping	Microtools
Steels < 35 HRC	Multipurpose	ALTiN Nano	ALTiN Nano	ALTiN Nano	TiN S / TiCN HP	ALTiN Micro
	Dedicated	MpC+3 Insert	MpC+4	MpC Drill	TiCN Taps	MpC+4 Micro
Steels > 35 HRC to < 52 HRC cast iron	Multipurpose	MpC+3	MpC+3	MpC Drill	MpC TiN/TiCN	ALTiN Micro
	Dedicated	MpC+2 Insert	Mical Cast	HardDrill	MpC Taps	Mical Nano
Steels > 52 HRC	Multipurpose	Mical Cast	Mical Cast	Mical Cast	Mical Cast	
	Dedicated	HardInsert	HardMill	HardDrill		HardMill Micro
Stainless Steels	Multipurpose	MpC+4	MpC+4	MpC+4	TiCN Taps	
	Dedicated	Mical Plus	Mical Plus	Mical Titan	MpC+4	MpC+4 Micro
Titanium	Multipurpose	MpC+4	MpC+4	MpC+4	TiCN Taps	
	Dedicated	Mical Titan	Mical Titan	Mical Titan	Mical Titan	MpC+4 Micro
Super Alloys	Multipurpose	Mical Plus	Mical Plus	Mical Plus	Mical Plus	
	Dedicated	Mical Titan	Mical Titan	Mical Titan	Mical Titan	MpC+4 Micro
Aluminum < 12%	Multipurpose	ZrN	ZrN	ZrN	ZrN	ZrN
	Dedicated	Mical Alu	Mical Alu	Mical Alu	Mical Alu Top	Mical Alu
Aluminum > 12%	Multipurpose	Mical Alu	Mical Alu	Mical Alu	Mical Alu	
	Dedicated	Ta:C	Ta:C	Ta:C	Ta:C	Ta:C
Bronze, Brass	Multipurpose	CrN	CrN	CrN	CrN	
	Dedicated	Mical Alu	Mical Alu	Mical Alu	Mical Alu	Mical Nano

Tool Steel <=> Application	Condition	Gear Cutting
HSS / PM <=> Steel	Dry	HardGearCut
	Wet	MpC+5
Carbide <=> Steel	Dry	HardGearCut

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