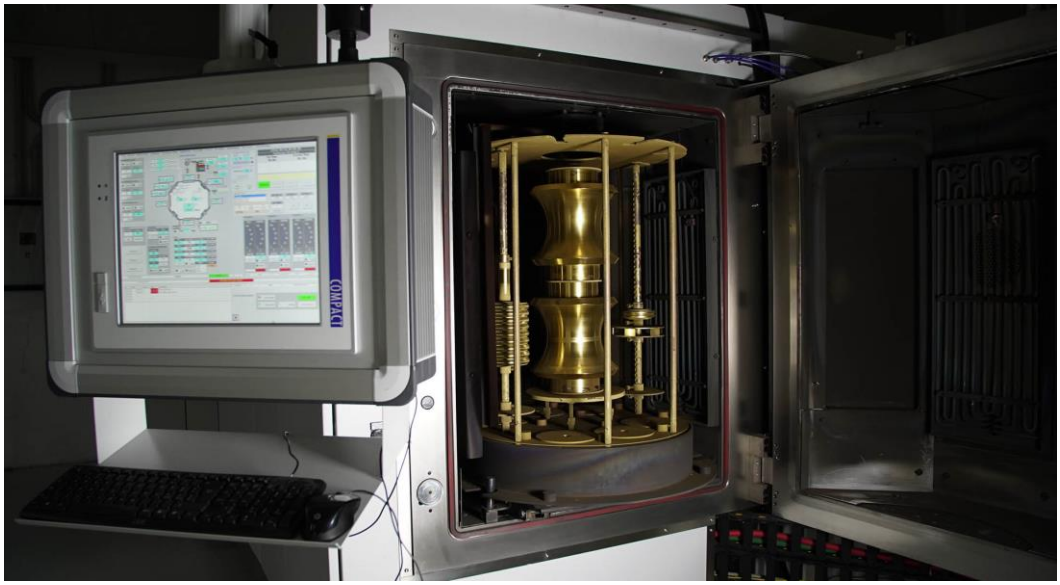
PHISICAL VAPOUR DEPOSITION COATINGS

Advanced Technologies

PROCESS

This was a result of a partnership started years ago with the laboratories of Legnaro (Material Science and Technologies Service at Legnaro National Laboratories, National Institute of Nuclear Physics). What was developed, was a brand-new system, (INFN-branded), which allows the application of the most innovative physical vapor deposition (PVD) technologies. The State of The Art, PVD machinery uses a combined arc and magnetron source and is one of a kind.



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TECHNICAL DATA

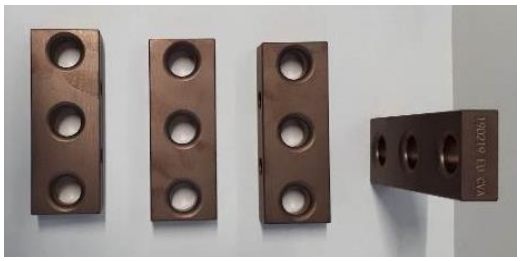
Max Cylinder diameter: 600mm
Max Length 700mm
Max Weight 1000kg

Main coating and characteristic:

DESIGNATION	MATERIAL	HARDNESS	THICKNESS	PROPERTIES
EUKRIPTONIT	Combinations of Ti	1800-3000 Hv	1-6 ym	GOOD WEAR RESISTANCE, INTERRUPTED CUT WEAR RESISTANCE, GOOD ROUGHNESS, GOOD ANTI-BONDING PROPERTYES,BIOCOMPATIBLE
EUKRIPTOKROM	Combinations of Cr	1500-2500 Hv	1-8 ym	EXCELLENT POLISHING PROPERTIES AND LOW ROUGHNESS , MEDIUM WEAR RESISTANCE, GOOD TEMPERATURE AND OXIDATION RESISTANCE, GOOD TOUGHNESS. LOW COATING PROCESS TEMPERATURE
EUKRIPTAL	Combinations of Ti,Cr,Al	>3500 Hv	1-8 ym	VERY HIGH OXIDATION RESISTANCE AT HIGH TEMPERATURE, GOOD WEAR RESISTANCE AND LOW FRICTION COEFFICIENT. HIGH TOUGHNESS

A wide range of other coatings as for example Zr, Si base are available or could be developed according necessity.
To define the most suitable coating for the application contact us.

Example:

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