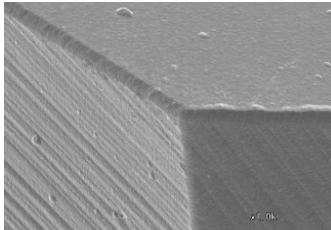


## PLASTIC INJECTION MOLDS

The layers developed by means of PVD Magnetron Sputtering present the best properties in terms of wear resistance and friction due to its high density and nano-structured growth. The absence of micro - droplets assures the polished surface after coating and an absolute homogeneity..

### High-hardness PVD coating, obtained at low temperatures (max 200°C)

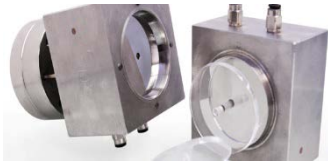


PVD Magnetron Sputtering

This coating was specially developed to avoid deformation in the base material pre-treated molds or steels already hardened and tempered at low temperature, stainless steel and pre-treated steels.

#### TIN MOLT Based on TiN compound (\*)

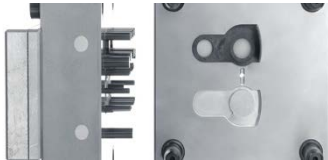
- Injection of fiber-reinforced plastics.
- Resistant to abrasive wear.
- Facilitates unmolding.



CRN MOLT

#### CRN MOLT Based on CrN compound (\*)

- Injection of abrasive plastics.
- Recommended for Copper-aluminum and copper-beryllium alloy molds.
- Growth in slightly-stressed multilayers, thickness between 6 and 8 microns are achievable.



CRN MOLT/ DLC MOLT

#### DLC MOLT Based on DLC compound

- Mobile parts without lubrication subjected to wear.
- Columns, ejectors.
- Molds for pharmaceutical and food packaging components.
- Abrasive and corrosive owing to chlorine compounds (PVC)



DLC MOLT

#### ALOX MOLT Based on AlTiN compound (\*)

- Very high hardness (3700 HV) and wear-resistance.
- Resistant to thermal oxidation.
- Injection of highly abrasive plastics. Fiber-reinforced plastics.

(\*) PVD coatings that can be carried out at higher temperatures (close to 450°C)

