### Dextron RESEARCH



### SUCCESS OF PVD NANOCOMPOSITE COATING DEPOSITION FOR GALVANIC REPLACEMENT

#### WEAR AND CORROSION RESISTANT NANOCOMPOSITE COATINGS Application: surface protection in hazard environments



NANOSTRUCTURED TRIBOLOGICAL COATINGS Application: friction reduction and reliability increasing for machine components



PLASMA DIFFUSION TREATMENT Application: surface hardening, wear and corrosion protection

### Wear and corrosion resistant decorative coatings

APPLICATION: consumer goods.



Nanocomposite coatings for:

Door locks (brass, zamak alloy, steel).
Spectacle frames (monel, nickel silver, titanium, steel).
Watch case (brass, steel, titanium)
Automotive components (plastic, brass, aluminium).









#### Wear and corrosion resistant decorative coatings









- Multilayer nanocomposite coating has very good corrosion resistance in hazard environment, especially in the salt spray and artificial sweet tests
- Hard top layer for wear resistance and different colors



### 15 years of successful coating deposition:

**APPLICATION:** wear and corrosion resistant coatings on spectacle frames



DexTroN

RESEARCH



## 3 vacuum coating systems works 6 batches/day 5d/week since 2003



### 15 years of successful coating deposition:

**APPLICATION:** wear and corrosion resistant coatings on spectacle frames



DexTroN

Research



## 3 vacuum coating systems works 6 batches/day 5d/week since 2003



### 10 years of successful coating deposition:

APPLICATION: wear and corrosion resistant coatings on the brass watch cases





# 2 vacuum coating systems works 5 batches/day 5d/week (2001-2011)



#### 8 years of successful coating deposition:

APPLICATION: decorative coatings on the door lock handles





2 vacuum coating systems works 7 batches/day 5d/week since 2010



#### 18 years of successful coating deposition:

**APPLICATION:** decorative coatings on the plastic



## 5 vacuum coating systems works 7 batches/day 5d/week since 2000



1	Metalworking tools: mills, drills, punches.			
2	Wear and corrosion protection: turbine blades, automotive components, hydraulic components, etc			
3	Friction and wear reduction: ball bearings, journal bearings, automotive components, etc	00		

#### Low friction coatings

#### **APPLICATION:** automotive components



Bearings, piston pins, piston rings, valves, etc.



### VACUUM COATING SYSTEMS



We've sold 60 vacuum coating systems in Russia since 2000



Thank you!