



## **MEDICAL SERIES**

**DLC**

**Multi Source**

**Tribological Solution**

**Hard Coating Solution**

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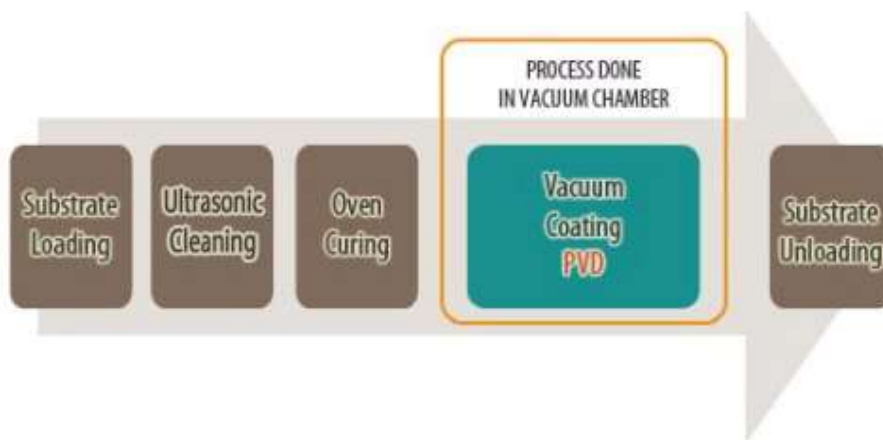
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## System Summary

Thin film coatings for medical industry has been focused on surgical tools and cutting tools to ensure sharpness, and longevity. Medical instrument coating machine can prevent the scratch and ensure trouble free operation even without lubrication. It can be used for the nails membrane plating tools, and surgical bone saw. It also can prevent the corrosion when sterilization for the medical instruments.

## PROCESS:



## MACHINE CONFIGURATION:

| Model     | Chamber size | target | time           | Standard coating       | configuration  |
|-----------|--------------|--------|----------------|------------------------|--|
| DKDLC-380 | Ø380×H450mm  | 2pcs×3 | 3-5hours/cycle | TiN, CrN, AlTiN, AlCrN | Mechanical pump, Roots pump, holding pump and diffusion pump or molecular pump |
| DKDLC-600 | Ø600×H650mm  | 2pcs×3 | 4-6hours/cycle | TiN, CrN, AlTiN, AlCrN | Mechanical pump, Roots pump, holding pump and diffusion pump or molecular pump |
| DKDLC-650 | Ø650×H700mm  | 4pcs×3 | 3-6hours/cycle | TiN, CrN, AlTiN, AlCrN | Mechanical pump, Roots pump, holding pump and diffusion pump or molecular pump |
| DKDLC-900 | Ø900×H950mm  | 6pcs×3 | 5-8hours/cycle | TiN, CrN, AlTiN, AlCrN | Mechanical pump, Roots pump, holding pump and diffusion pump or molecular pump |

## APPLICATION:

- Diagnostic Imaging
- Surgical Instruments & Devices
- Medical Diagnostics
- Biomaterials
- Dental Implants & Instruments
- Pharmaceuticals
- Orthopedic Implants and Devices
- Drug Delivery Systems

## PRODUCTS IMAGES:







### COATING PARAMETERS:

|                 | Color             | Hardness (HV) | Thickness (μm) | Max Temp (°C) | Friction Coefficient Vs 100Cr6 | Most Common Equipment Configuration    |
|-----------------|-------------------|---------------|----------------|---------------|--------------------------------|--|
| TiN             | Gold              | 2400-3000     | 1-4            | 500           | 0.5                            | 2-4-6 Cathode Steered Arc Or Sputter   |
| TiCN            | Blue/Grey         | 2400-3200     | 1-3            | 400           | 0.3                            |  |
| ZrN             | Champagne         | 2000-2700     | 1-4            | 500           | 0.5                            |  |
| ZrCN            | Various           | 2000-3000     | 1-3            | 400           | 0.35                           |  |
| CrN             | Silver            | 1700-2800     | 1-5            | 700           | 0.5                            |  |
| TiAlN           | Dark Grey /Purple | 2300-3000     | 1-4            | 800           | 0.55                           |  |
| TiAlCN          | Grey/Black        | 2500-3200     | 1-3            | 700           | 0.4                            |  |
| AlTiN           | Blue/Black        | 2400-3100     | 1-4            | 850           | 0.55                           |  |
| AlCrN           | Grey              | 2600-3200     | 1-4            | 950           | 0.5                            |  |
| Ti-DLC          | Grey-Black        | 700-1500      | 1-5            | 250           | 0.15                           |  |
| Cr+WC/C         | Grey-Black        | 800-1800      | 1-4            | 250           | 0.15                           |  |
| Graphite/Low H  | Grey              | 500-2000      | 1-3            | 250           | 0.1                            | Dual Cathode Sputter with Hot Filament |
| CVD a-C:H       | Grey-Black        | 1000-3000     | 1-3            | 280           | 0.05                           |  |
| CVD Doped a-C:H | Grey-Black        | 1000-3000     | 1-3            | 280-350       | 0.05                           |  |



## AFTER-SALES SERVICE & SUPPORTING:

Danko Vacuum Systems and our global service partners can provide onsite installation, repair service, preventative maintenance, applications and service training. We are available to provide support for your system 24/7.

Free warranty for full equipment for 12 months.

Long term providing the target, vacuum materials and accessories at reduced prices.

Providing vacuum coating machine operation and training of personnel at site.