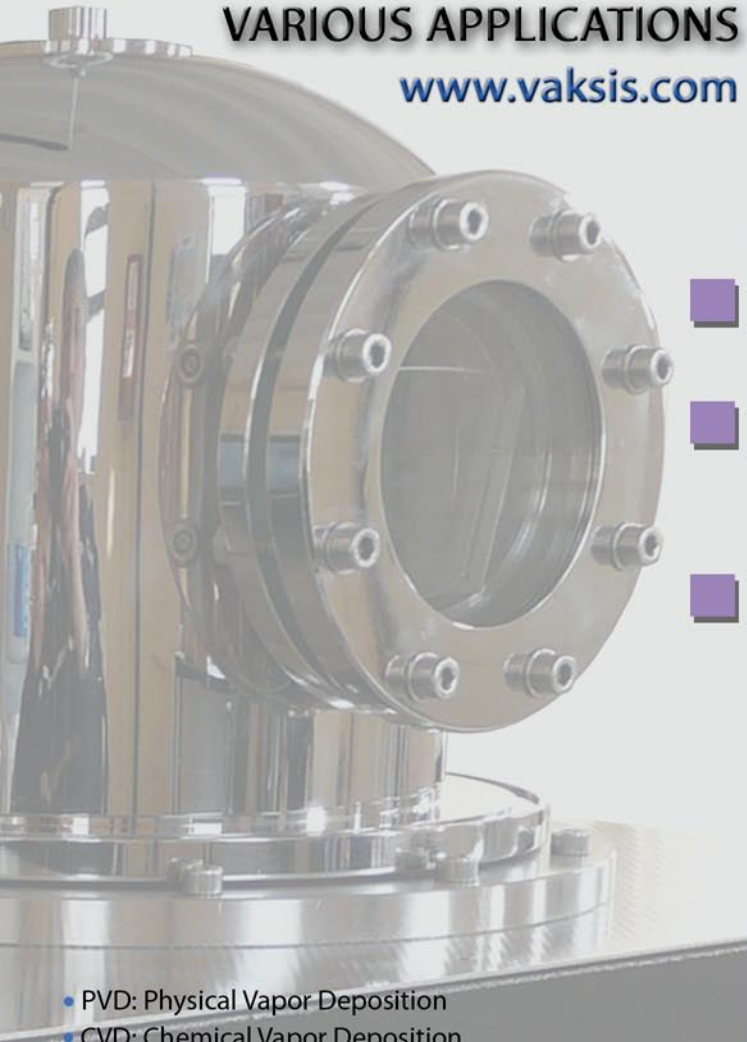


# e-bulletin

Vaksis Vacuum Systems Bulletin  
Year: 2, No: 4, March 2012

## PVD AND CVD COATING SYTEMS FOR VARIOUS APPLICATIONS

[www.vaksis.com](http://www.vaksis.com)



■ 2 golden suggestions

■ new product

PVD-*handy*<sup>®</sup> /2T-sm

■ activities

- PVD: Physical Vapor Deposition
- CVD: Chemical Vapor Deposition

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# e-bulletin

Vaksis Vacuum Systems Bulletin  
Year: 2, No: 4, March 2012

## For Vacuum Systems Users

### 2 golden suggestions!

- 1) Make sure that ground do not connect with the neutral at the electric line of the laboratory. Otherwise, residual current device (RCD) which will be used in your system (RCD) will not work. In the case of electric shock, due to the nonworking RCD, the user can damage like mortal wounds. Do not forget that, as a matter of legal doctrine, project manager and company executive are held responsible from this.
- 2) Do not forget that separate installation of the ground line of the laboratory is important in terms of safety and sensibility of the experiments. Make sure that the copper cables that used in ground line are monolithic. If there are copper part additions, you should pay attention being soldered of these parts or making a connection with electric terminals.

*We will continue giving golden suggestions in the next bulletins...*



Dr. Baybars ORAL  
COMPANY MANAGER

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# e-bulletin

Vaksis Vacuum Systems Bulletin  
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## new product

### PVD-*handy*<sup>®</sup> /2T-sm

*handy series*

*2T: 2 pieces of thermal evaporation source*

*sm: Small*

**Manual controlled, special design evaporation system with dual thermal evaporation sources for low budgets**

Chrome (Cr) and gold (Au) coatings can be coated - in the same loading – on a glass or silicon substrates in this system which is designed for low budget. Thickness sensor device which is called QCM, measures coating thicknesses during the coating.

#### CONTROL AND USING

All electrical and electronic devices are controlled from their front panel. Chamber is lifted manually. Control of the thickness sensor and system pressure reading are made by the help of atom processor computer.

System includes the following specifications.

#### Technical specifications

Pressure measurement:  $<1 \times 10^{-5}$  Torr

(Base pressure:  $<3 \times 10^{-6}$  Torr)

High-speed pump: 300l/s diffusion pump

Mechanical pump: 2,5 m<sup>3</sup>/h mechanical pump

Substrate size: Ø40 mm

Thickness measurement: In-situ measurement with  
Quartz X-tal Oscillator (QCM)

Deposition method: With the parts of refractive metal heating

Deposition mode : Upward

Number of sources 2

Loading: From top

Control: Manual



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# e-bulletin

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## activities

### 18<sup>th</sup> Condensed Matter Physics Ankara Meeting (25<sup>th</sup> November 2011)

Condensed Matter Physics Meeting is held from 1984. 18<sup>th</sup> meeting was held on the date of 25<sup>th</sup> November 2011 at METU Culture and Congress Center. Vaksis supported the activity as a sponsor and participant.

You can reach the details of the activity from the below address:

<http://www.physics.metu.edu.tr/yymf18/index.htm>

**18. Yoğun Madde Fiziği  
Ankara Toplantısı**

**25 Kasım 2011**  
Orta Doğu Teknik Üniversitesi  
Kültür Kongre Merkezi - B Salonu  
Ankara

### Condensed Matter Physics Aegean Region Meeting (6<sup>th</sup> April 2012)

First of Aegean Region Condensed Matter Physics Meetings will be held at İzmir Institute of High Technology on the date of 6<sup>th</sup> April 2012. It is aimed that Aegean Region meetings to be held every year like Ankara meetings. Vaksis will support this activity as a sponsor and participant. You can visit our booth and get information about Vaksis products.

You can reach the details of the activity from the below address:

<http://ymf.iyte.edu.tr/genelbilgiler.html>



**Yoğun Madde Fiziği  
Ege Bölgesi Toplantısı**

**6 Nisan 2012**  
TUBİTAK Izmir Yüksek Teknoloji Enstitüsü  
Prof. Dr. Erdal Baygun Amfisi

**Düzenleme Kurulu**  
Yusuf Selamet (İzmir Yüksek Teknoloji Enstitüsü)  
Tayfun Bengür (İzmir Yüksek Teknoloji Enstitüsü)  
Kevser Tarhan (İzmir Yüksek Teknoloji Enstitüsü)  
Oğuz Çakar (İzmir Yüksek Teknoloji Enstitüsü)  
Semaül Vakıfçı (Dokuz Eylül Üniversitesi)  
Uğur Turanlı (Ege Üniversitesi)  
Salih Ökür (İzmir Katip Çelebi Üniversitesi)  
Hadi Zeynep Özdal (Dokuz Eylül Üniversitesi)  
Meltem Özlü (Mıgla Üniversitesi)  
Oğuz Özlü (Dokuz Eylül Üniversitesi)

**Devlet Kurumları**  
Akademi Kurumu (T.C. Cumhurbaşkanlığı)  
İzmir Adana MİT (Bilimsel Araştırma Kurumu)  
Hüseyin Yılmaz, Temiz (Dokuz Eylül Üniversitesi)  
Değerli Pazar (İzmir Yüksek Teknoloji Enstitüsü)

**Web:** <http://ymf.iyte.edu.tr> E-posta: [ymf@iyte.edu.tr](mailto:ymf@iyte.edu.tr) Tel: 02322 750 7700  
İzmir Yüksek Teknoloji Enstitüsü, Fıstık Sok. No: 1, Üzümce, Urla 35430 İZMİR

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