

Our offices and contacts

OUR HEADQUARTERS :

ORTHODYNE S.A.

Rue des Technologies, 23
B-4432 ALLEUR - BELGIUM
Phone : +32-4-247 91 06
Fax : +32-4-263 09 79
E-Mail : sales@orthodyne.be



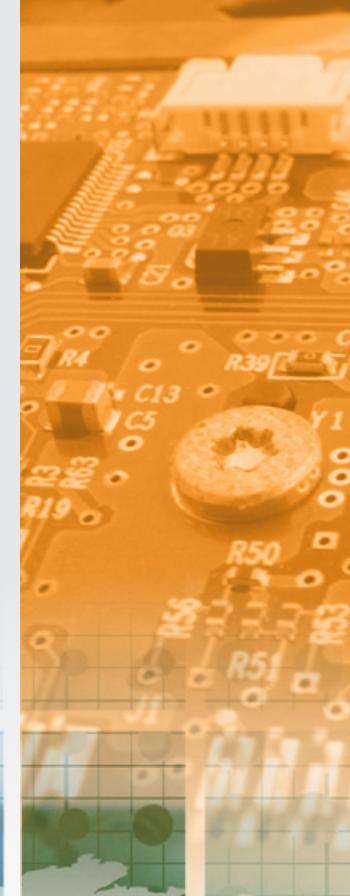
OUR SUBSIDIARY :

ORTHODYNE ANALYTICAL (SHANGHAI) Co., Ltd.

Area C. 1F. Building 7#, NO.330 Xi Ya Road
Waigaoqiao Free Trade Zone
Shanghai 200131 – P.R. CHINA
Phone : +86.21.50461180
E-Mail : asia@orthodyne.be



HI-PURITY GASES FOR SEMI-CONDUCTORS



 **ORTHODYNE**
GAS CHROMATOGRAPHY

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 **ORTHODYNE**
GAS CHROMATOGRAPHY

Orthodyne has the appropriate equipment to meet the requirements of the semi-conductors industry, enabling detection threshold in the PPB level

Gases involved in the semi-conductors industry :

- > Sample : Argon, Helium, Hydrogen, Nitrogen, Oxygen
- > Impurities : H₂, O₂, N₂, CH₄, CO, CO₂, NMHC, Ar, Kr, Ne, Xe
- > Threshold : < 1ppb resolution guaranteed (Limit Detection Level)

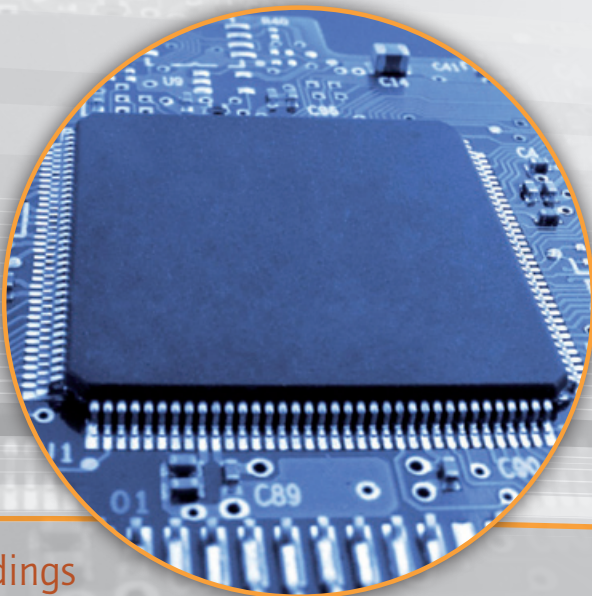


> Gas purifiers on the carrier gas : He, Ar, N₂, H₂



> Diaphragm valves

> Electro-polished tubes



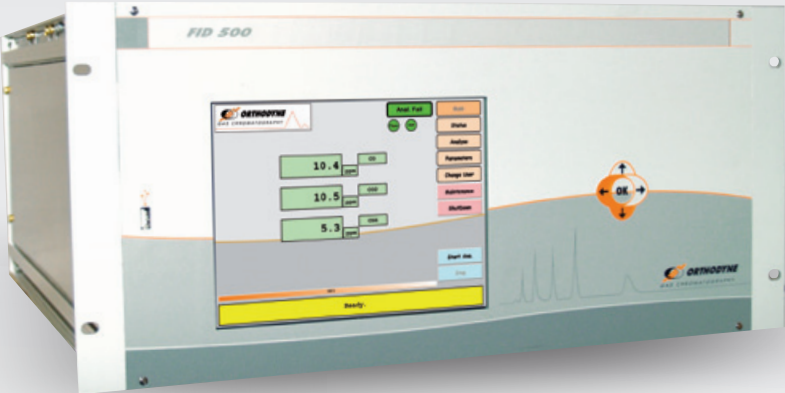
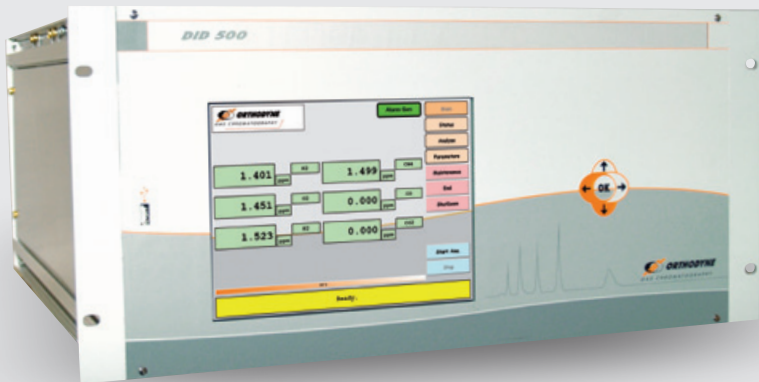
> VCR Fittings

> Orbital weldings

Our solutions

> Measurement capabilities

Sample	ARGON	HELIUM	HYDROGEN	NITROGEN	OXYGEN
Type :	< 1 ppb H ₂	< 1 ppb H ₂	NA	< 1 ppb H ₂	< 1 ppb H ₂
Orthodyne	NA	< 1 ppb O ₂ +Ar	< 1 ppb O ₂ +Ar	< 1 ppb O ₂ +Ar	< 1 ppb Ar
DID or FID	< 1 ppb N ₂	< 1 ppb N ₂	< 1 ppb N ₂	NA	< 1 ppb N ₂
	< 1 ppb CH ₄	< 1 ppb CH ₄	< 1 ppb CH ₄	< 1 ppb CH ₄	< 1 ppb CH ₄
	< 1 ppb CO	< 1 ppb CO	< 1 ppb CO	< 1 ppb CO	< 1 ppb CO
	< 1 ppb CO ₂	< 1 ppb CO ₂	< 1 ppb CO ₂	< 1 ppb CO ₂	< 1 ppb CO ₂
	< 2 ppb NMHC	< 2 ppb NMHC	< 2 ppb NMHC	< 2 ppb NMHC	< 2 ppb NMHC



- Samsung (Austin Plant, USA)
- AP Intel (Dublin Plant, Ireland)
- Motorola (Toulouse Plant, France)
- Air Liquide Crolles (SLC Crolles Plant, France)
- Promos 3, Nanya and Inotera Project (Taiwan)
- Air Products (Avezzano Plant, Italy)

references