

# Vacuum Solutions from a single Source

## Consulting competence

**Applications**

Know-how

Experience

Customer intimacy

**Products**

Dimensioning

Engineering

**eVacuum**

Website

App

## Service solutions

**Worldwide quality**

Representatives worldwide

Genuine parts

Training courses

Maintenance

Replacement

## Vacuum generation

### Rotary vane pumps

**Single-stage**

UnoLine Plus  
Pumping speed  
250 up to 500 m³/h

HenaLine  
Pumping speed  
25 up to 1,000 m³/h

Pascal  
Pumping speed  
5.4 up to 15 m³/h

**Two-stage**

PentaLine  
Pumping speed  
22 up to 34 m³/h

DuoLine  
Pumping speed  
1.25 up to 250 m³/h

Pascal  
Pumping speed  
5.4 up to 60 m³/h

### Dia- phragm pumps

MVP  
Pumping speed  
0.25 up to 9.6 m³/h

### Piston pumps

XtraDry  
Pumping speed  
7.5 up to 13 m³/h

### Screw pumps

HeptaDry  
Pumping speed  
110 up to 525 m³/h

### Multi-stage Roots pumps

**Light duty**

ACP 15-40  
Dry and compact

A100L  
Integrated  
load lock pump

ACP 120/  
ACG 600  
Dry, for industrial  
application

**Medium duty**

A3P Serie  
Energy efficient  
process pump

**Harsh duty**

A3H Serie  
Harsh processes for  
semiconductor industry

### Roots pumps

**Air cooled**

OktaLine  
Pumping speed  
250 up to 25,000 m³/h

**Gas cooled**

OktaLine G  
Pumping speed  
250 up to 12,000 m³/h

### Roots pumping stations

**With single-stage backing pump**

CombiLine WU  
Ultimate pressure  
up to  $2 \cdot 10^{-3}$  mbar

**With two-stage backing pump**

CombiLine WD  
Ultimate pressure  
up to  $5 \cdot 10^{-4}$  mbar

**With dry backing pump**

CombiLine WH  
Ultimate pressure  
up to  $2 \cdot 10^{-3}$  mbar

**Compact pumping station**

LRS  
Pumping speed  
150 up to 1,000 m³/h

### Side channel pumps

OnTool Booster  
Pumping speed  
130 m³/h

### Turbopumps

**Hybrid bearing**

HiPace  
Pumping speed  
10 up to 2,000 l/s

**Magnetically levitated**

ATH M/HiPace M  
Pumping speed  
255 up to 2,600 l/s

**Multi-stage**

SplitFlow  
Pumping speed  
according to requirement

### Turbo pumping stations

**Compact**

HiCube Eco  
Pumping speed  
35 up to 67 l/s

**Standard**

HiCube Classic  
Pumping speed  
35 up to 685 l/s

**High performance**

HiCube Pro  
Pumping speed  
35 up to 685 l/s,  
short pump-down time

## Vacuum measurement

### Vacuum measurement equipment

**Analog**

ActiveLine  
Total pressure measurement

**Digital**

DigiLine  
Total pressure measurement

**Modular**

ModulLine  
Total pressure  
measurement for R&D

## Vacuum analysis

### Analysis equipment

**Residual gas analysis**

PrismaPlus  
Mass spectrometer  
Mass range  
1-300 amu

HiQuad  
Mass spectrometer  
Mass range  
1-2048 amu

**Gas analysis**

OmniStar  
Compact benchtop  
analysis system

ThermoStar  
Analysis system for  
coupling with thermo  
balances

HPA  
High Pressure Analyzer  
Pressure range  
up to 50 mbar

SPM  
Sputter Process Monitor  
Pressure range  
up to 10 mbar

PPM  
Plasma Process  
Monitor 1-1024 amu

## Leak detection and leak testing

### Leak detectors

**Portable**

MiniTest  
Mobile, even for  
harsh environments

ASM 310  
Mobile service use

**Compact**

ASM 142  
High performance  
all-rounder

ASM 142 D  
Dry all-rounder

**High performance**

ASM 380  
Dry and mobile

ASM 182 T  
Robust industry  
standard

ASM 192 T  
Flexible console  
devices

**Workstation**

ASM 1002  
Ergonomical  
test station

**Modular**

ASI 30  
Industrial leak  
detection systems

**Sniffing leak detection**

ASM 102 S  
Dry and portable

ASM 142 S  
Stationary sniffer  
test station

## System technology

### Plant construction

**Contamination Management Solutions**

APA  
Monitoring  
of contamination

APR  
Removal  
of contamination

**Multi-stage vacuum process**

Vacu²  
For die casting  
processes

**Coating**

Classic  
Coating systems

**Helium leak detection systems**

Complete systems

## Vacuum components

### Chambers

**Standard**

TrinosLine  
Cubical, horizontal/  
vertical, modular

**Customized**

TrinosLine  
Customized for specific  
customer applications

### Components, valves, manipulators

**Components**

ISO-KF, ISO-K,  
ISO-F, CF, COF

**Hoses and flex connectors**

ISO-KF, ISO-K, CF

**Glass elements**

ISO-KF, ISO-K,  
ISO-F, CF

**Customized elements**

Customized for specific  
customer applications

**Valves**

Shut-off valves,  
gas dosing valves

**Feedthroughs**

Current/voltage,  
fluids, insulators,  
combinations

**Manipulators**

X-, Y-, Z-motion,  
rotation, tilting