

COSMO INSUTRUMENTS CO.,LTD.

AIR LEAK TESTER





COSMO INSTRUMENTS CO.,LTD

TOKYO JAPAN

Head Office

Head office has the core infrastructures such as Sales, Technical, General Affair departments



Plant

Built in December, 2006

Plant has Production, Purchasing, Service, System Management departments. Also Clean Room, Training Room, Meeting Room are available.



Inspection Line 1F



Assembly Line 1F



Clean Room 2F

| Management Principle

Make great contribution to society through customers

| Our Value

- ◆ Always respect and prioritize customer's opinion and offer the best solution through products and services
- ◆ Provide the high-quality, excellent and innovative products
- ◆ Always try to improve own skills and abilities to reach higher level.

| Foundation

25/JUN/1970

| Capital Fund

72 Million Japanese Yen

| Employee

140 employees

Award from Ministry of Economy, Trade and Industry



- ◆ Cosmo has received the award for “Best 300 Small and Medium Enterprises of shop-floor production (MONOZUKURI) in June, 2007

Approach to ISO Certification

Quality



ISO9001 Acquired in 1999
Certification No#: JQA – QM3681
Certified Organization: JQA
Scope of Certification: Head office·
Plant, Domestic Sales offices, CST
(USA)

Environment



ISO14001 Acquired in 2005
Certification No#: JQA – EM5044
Certified Organization: JQA
Scope of Certification: Head office,
Plant

Calibration



ISO/IEC 17025 Acquired in 2009
Certification No#: RCL00350
Certified Organization: JAB
Scope of Certification: Dynamic
Quantity (Calibration of Pressure)
Cosmo Group Calibration Laboratory

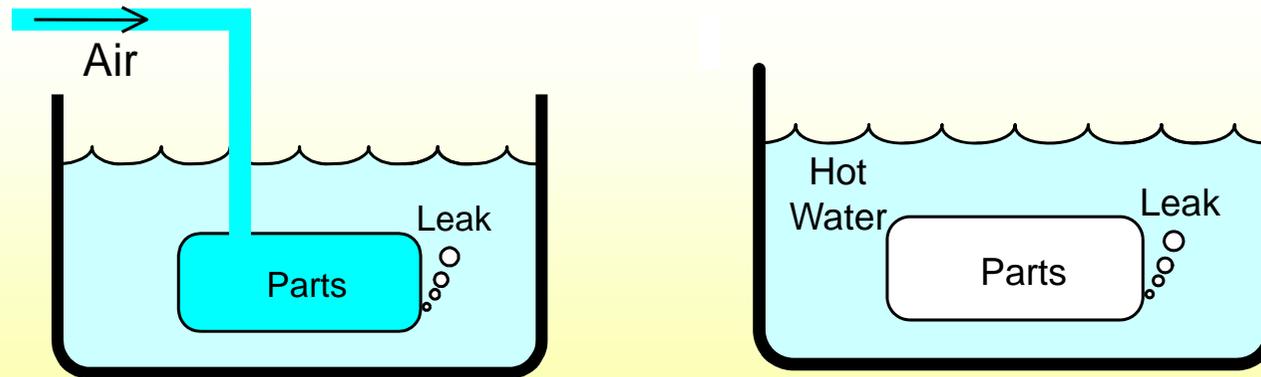
Cosmo always provides the customers with the perfect leak solution!



What is Leak Testing???

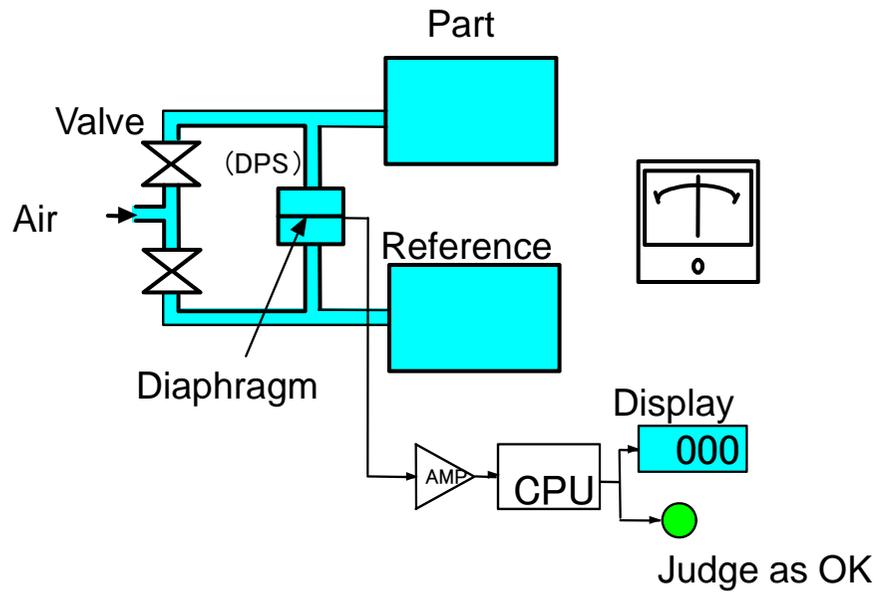
Water-dunk method is the easiest example of Leak Testing (Air-tightness test). A bubble comes out of a part to be tested if there are leaks when dunking it in water and pressurize.

The following picture shows the part has leaks.



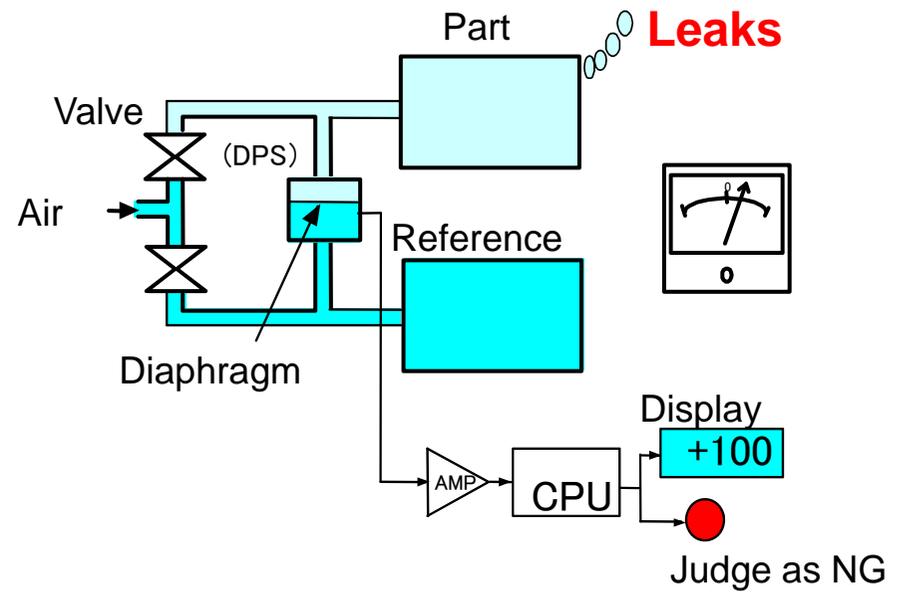
Principle of Differential Pressure Method

[No Leaks from Part]



OK

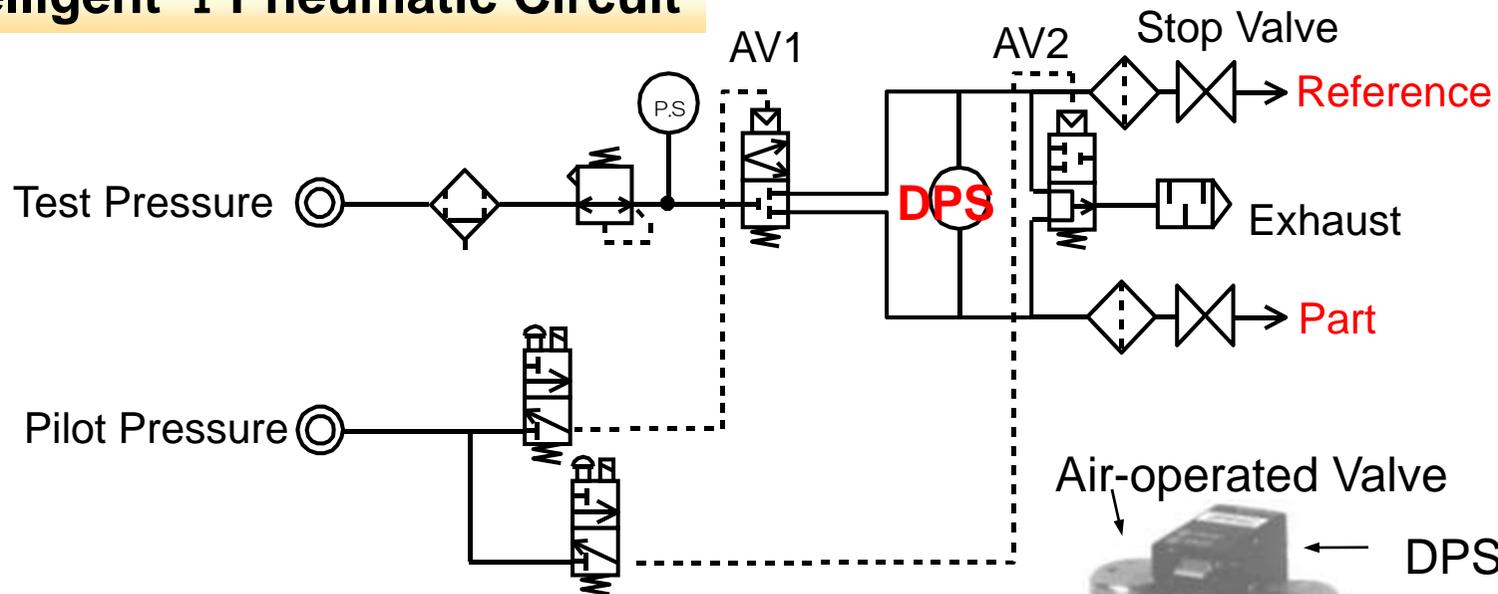
[Leaks from Part]



NG

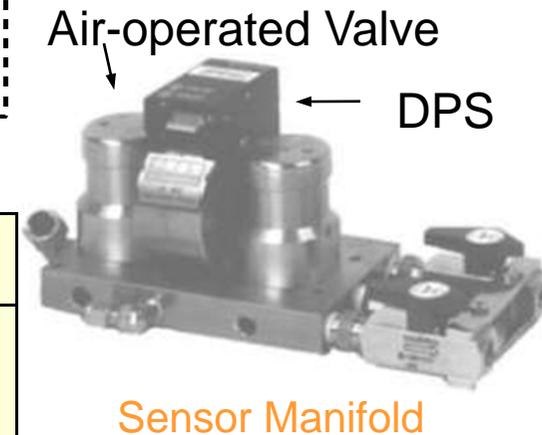
Pneumatic Circuit of Cosmo Air Leak Tester

Intelligent I Pneumatic Circuit



<Measurement Procedure>

CHG	BAL	DET
Pressurize both a part to be tested and a reference part (no leak at all).	Stop pressurizing and separates the part and reference.	Detect a pressure difference between the part and reference. Full scale of DPS : 1kPa



Lineup of Air Leak Tester

Multi-linked Type



LS-1881

Standard Type



LS-1842



LS-1822A

Specialized in Sealed Parts



LZ-1550

Specialized in Small Sealed Part



LS-1441(ZS)

Specialized in Ultra-high Pressure (up to 16MPa)



LS-1441(SH16)

LS-1881 Features

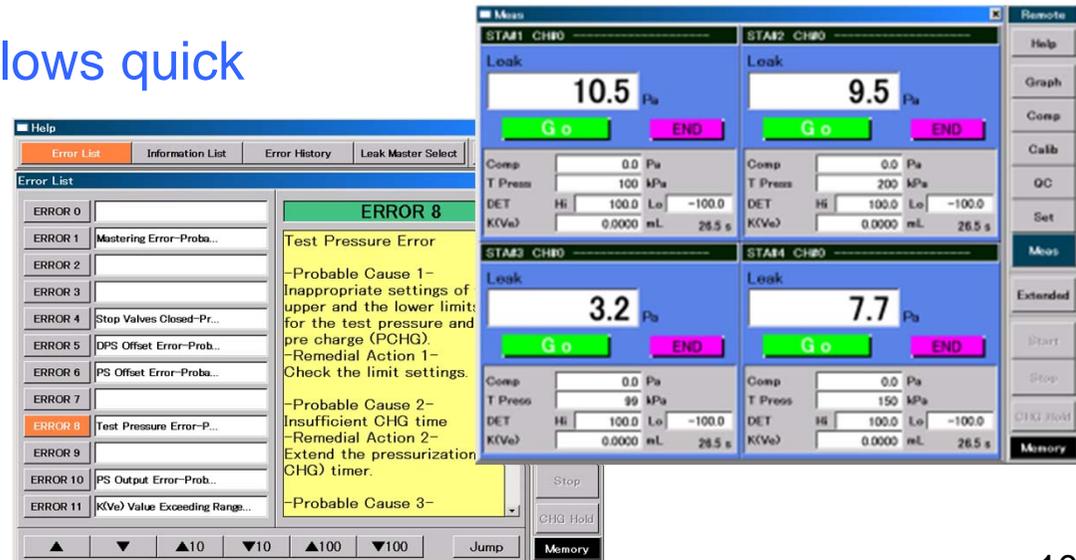


Up to 8 pneumatic circuit can be connected to a monitor

4 displays in one monitor

High performance CPU allows quick processing

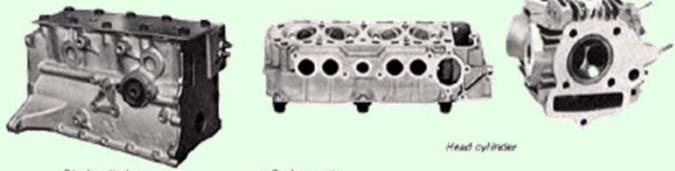
Great in maintenance



Applications

Automobile

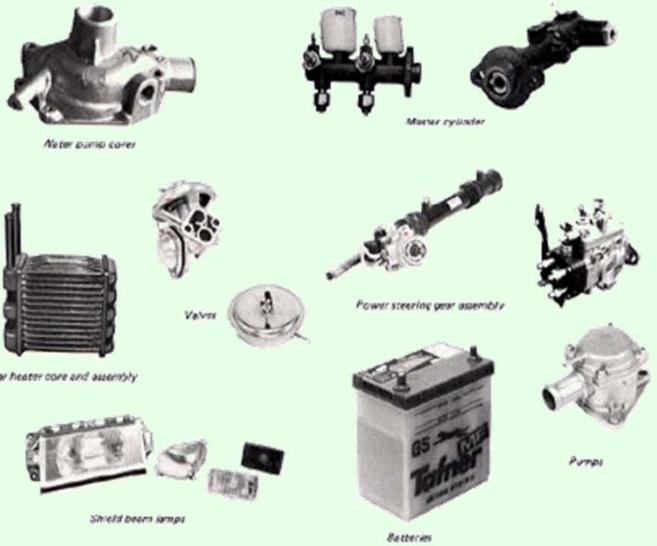
- Engines and engine parts



- Brake parts



- Other automobile parts



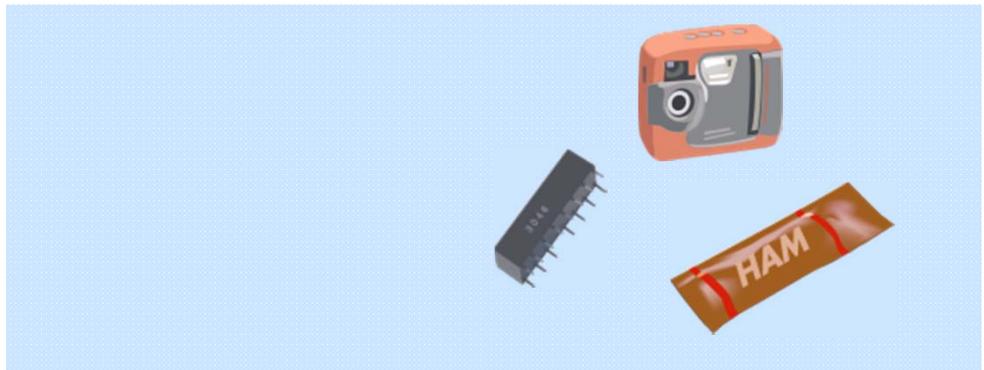
Medical



Home Appliance - Gas



Electrical Appliance - Sealed Product

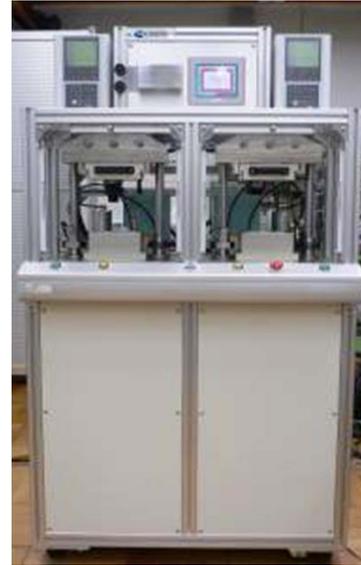


Leak Testing Machine (1)



Electrical Device

Artificial Bladder



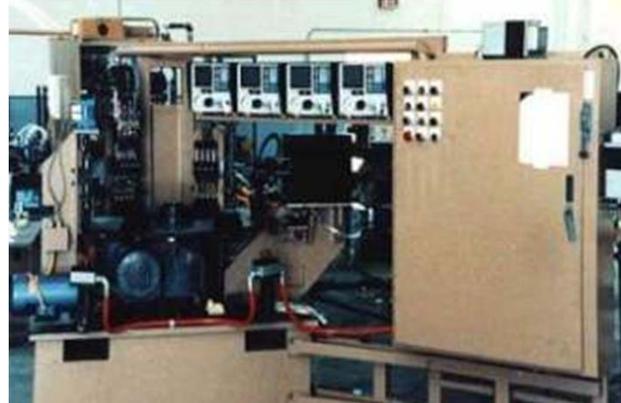
Water-proof Digital Camera



Back Monitor (Car)



Pipe Joint



Fuel Joint



High-pressure Hose

Leak Testing Machine (2)



Cylinder Head



Transmission



Cylinder Block



Fuel Injector



Water Pump



Intake Manifold



Diesel Engine ASSY

Flow Tester

Air Flow Tester

Air Flow Tester AF-2220 AF-2400



Laminar Flow

Digital Flow Meter

DF-2800



Mass Flow

DF-230BA



Manometer-Pressure Controlling Device

DP Gauge
DP-330



DP-330BA

Pressure Controlling Device

Pressure Controller
PC-4660



Micro Pressure
Electro
Pneumatic
Regulator
PRV-700



Digital Manometer
DM-3501



Micro Differential
Pressure
Transducer
PT-105A-A



Manometer

Pressure / Flow Testing Machine

Fuel Cap Test Machine



Suction Joint Test Machine



Flow Test Bench



Micro Pressure
Electropneumatic Regulator
PRV-700



Laminar Flow Tube



Micro Differential
Pressure Transducer
PT-105A-A



Mass Flow Meter
DF-230BA



Flow Tester/Meter
Calibration Machine

Major Customers (1)

Automobile



TOYOTA MOTOR
NISSAN MOTOR
HONDA MOTOR
MAZDA MOTOR
MITSUBISHI MOTORS
SUZUKI MOTOR
FUJI HEAVY INDUSTRIES
DENSO
KAWASAKI HEAVY
INDUSTRIES
AISIN SEIKI
CALSONIC KANSEI
JATCO
AND OTHERS...

Major Customers (2)

Electronic · Electric



TOSHIBA
NEC
HITACHI
FUJITSU
PANASONIC
SMC
OMRON
KYOCERA
SANYO ELECTRIC
CKD
SEIKO EPSON
TDK
MITSUBISHI ELECTRIC
AND OTHERS...

Major Customers (3)

Gas Appliance



RINNAI
NORITZ
PALOMA
YAZAKI

AND OTHERS...

Medical·Others



ASAHI KASEI
NOK
TOTO
MOLTEN
RYOBI

AND OTHERS...

What Cosmo Offers

Before Service

- Meeting for specific requirement
- Trial testing
- Coordinate with machine builder

After Service

- Back up service
- Repair
- Calibration



Sale Promotion

- Advertisement
- Participation of Exhibition
- Technical training session



Calibration

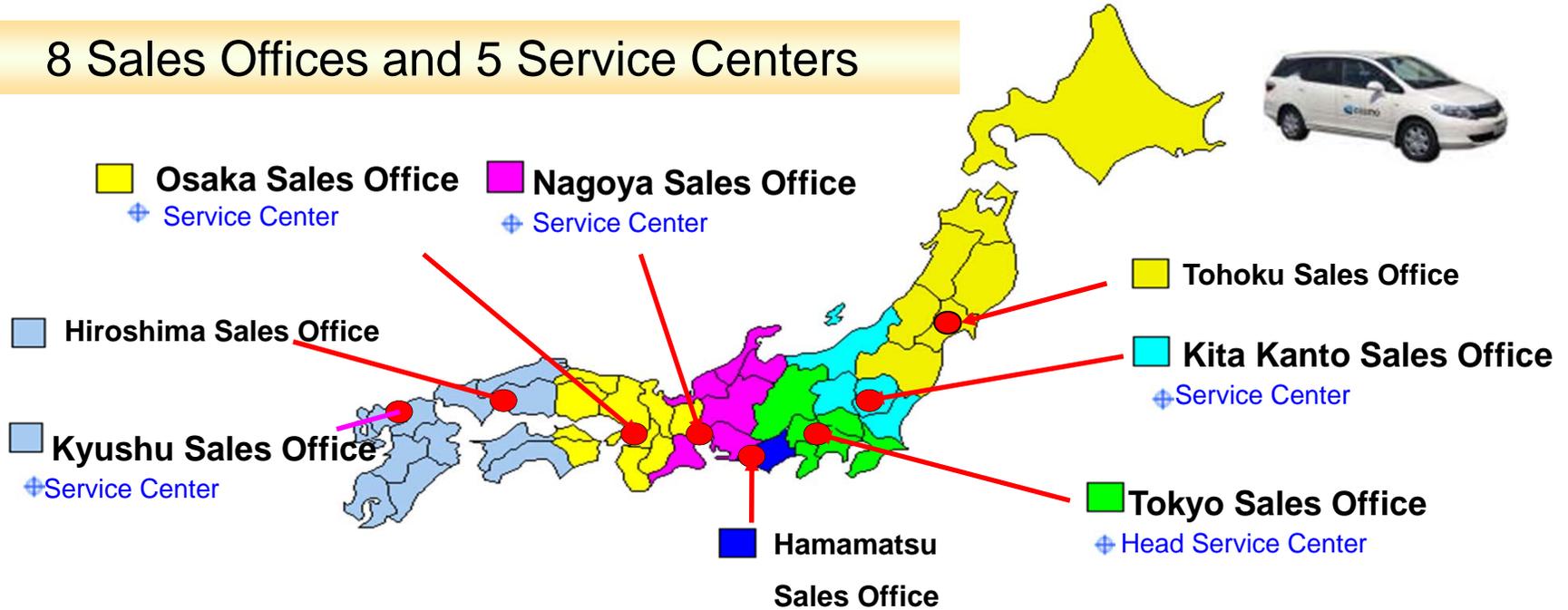


We recommend the annual regular calibration of Cosmo's differential pressure sensor.

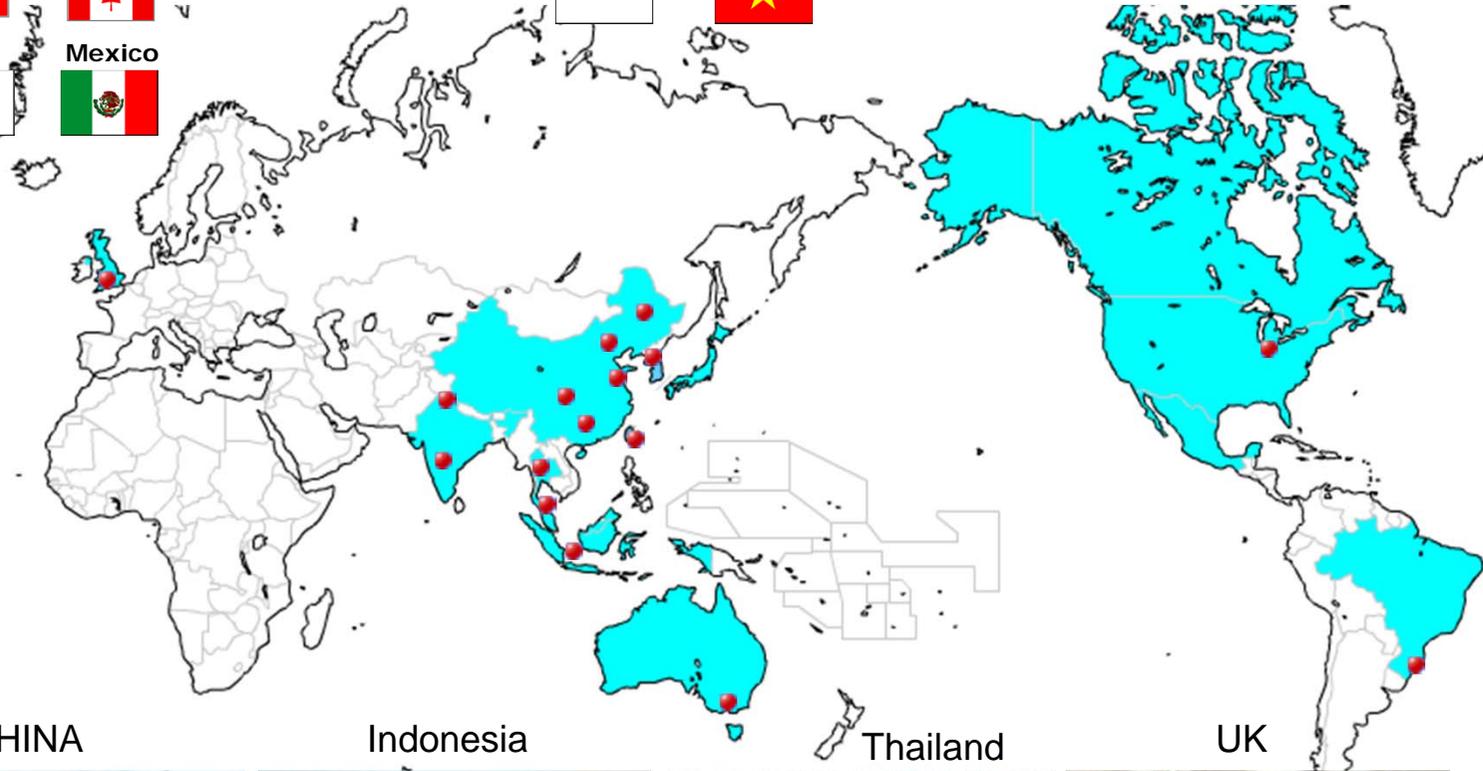
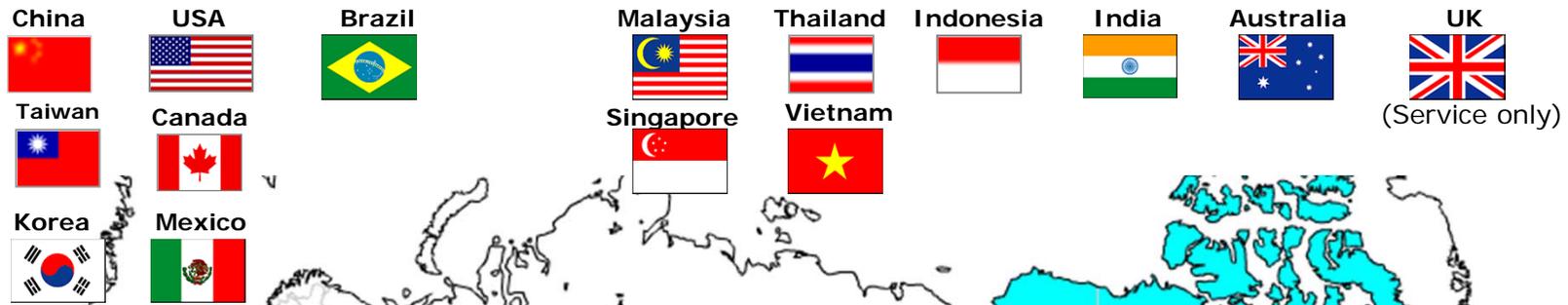
This could be carried out at on-site or Cosmo office.

Japan Network

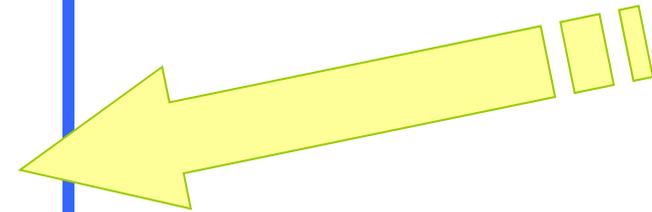
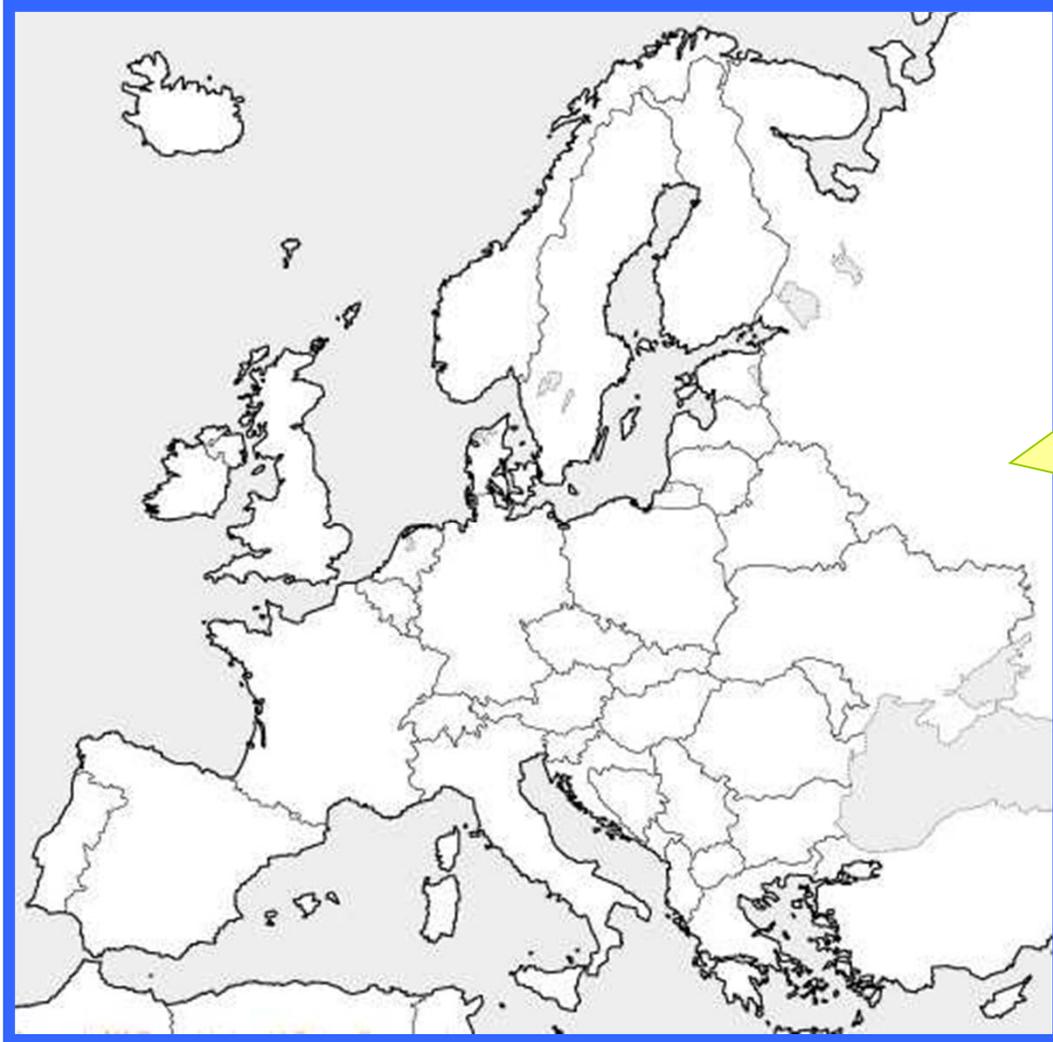
8 Sales Offices and 5 Service Centers



Overseas Network (15 nations)



☆☆☆Road To Europe ! ☆☆☆



**Thank you for
your time!!**