



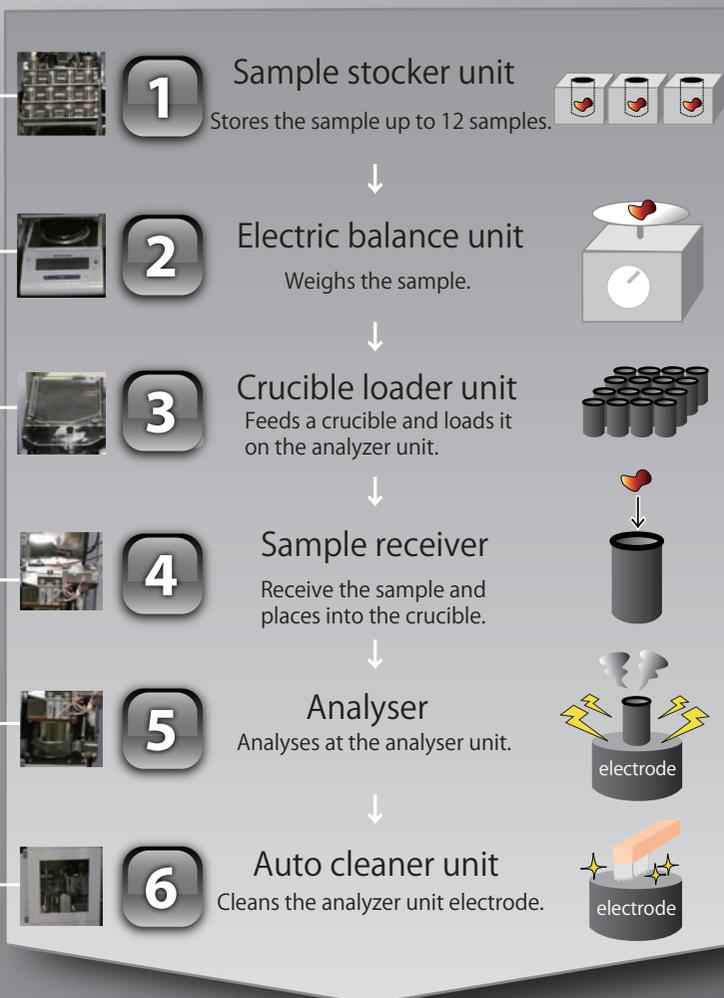
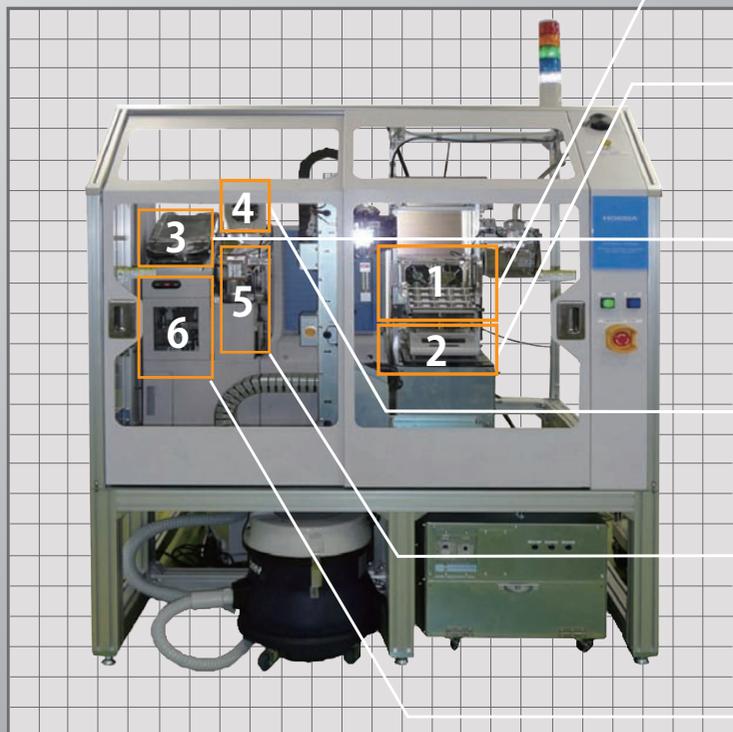
Oxygen/Nitrogen/Hydrogen Analyzer

Automation system of EMGA

- Fully automated process from sample weighing to post analysis maintenance
- Compact in size to fit into your laboratory
- Easy integration into your exiting automation environment



Measurement procedure »



※In the case of EMGA-921,
Flux is dispensed after step2.

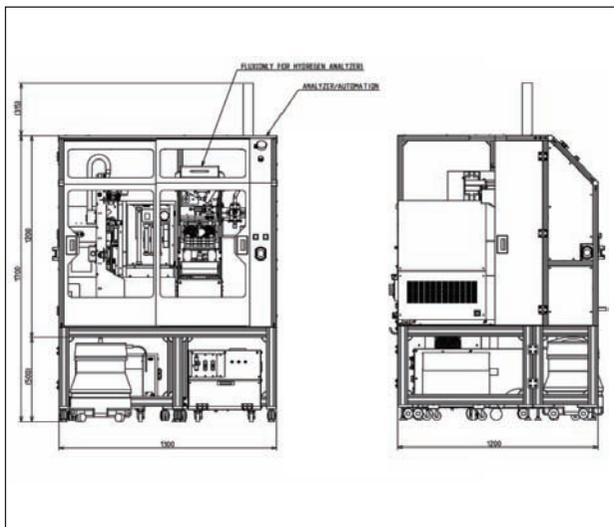
■ Specification of Automation system of EMGA

Size & Weight	1300(W) × 1200(D) × 1700(H)mm : 500kg
Sample shape	Block or Pin shape (smaller than $\varnothing 8\text{mm}$ / 15mm(H))
Through put time (*Depending on measurement condition)	200sec (Meas. : 130sec approx)
Operating mode	<ul style="list-style-type: none"> · Full-Automation (ON LINE / OFF LINE) · Semi-Automation · Manual

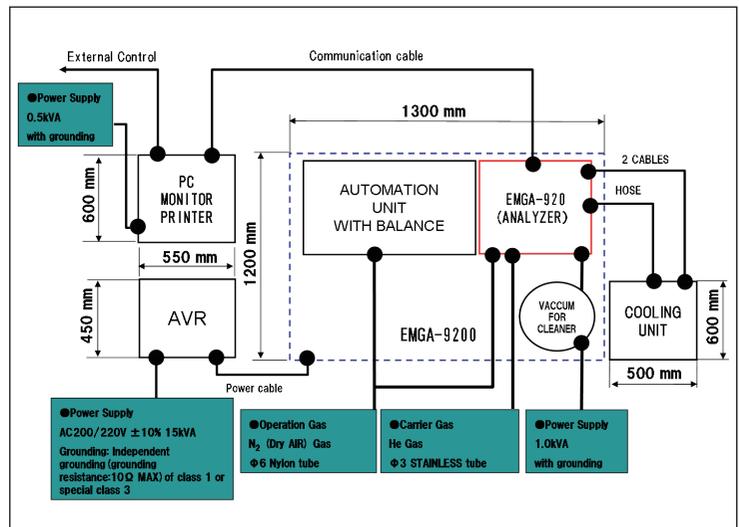
■ Specification of EMGA920/921/930

	EMGA-920	EMGA-921	EMGA-930
Measurement range (1 g sample)	Oxygen: 0~5%(m/m) Nitrogen: 0~3%(m/m) *Up to 100% wt is possible by decreasing the sample weight.	Hydrogen: 0~0.02% (m/m)	Oxygen: 0~5% (m/m) Nitrogen: 0~3% (m/m) Hydrogen: 0~0.25% (m/m) *Up to 100% wt is possible by decreasing the sample weight.
Accuracy (repeatability)	Oxygen/Nitrogen SD \leq 0.02 $\mu\text{g/g}$ or RSD \leq 0.5% whichever is larger (Reference gas)	Hydrogen:SD \leq 0.04 $\mu\text{g/g}$ or RSD \leq 0.5% whichever is larger (Reference gas)	Oxygen/Nitrogen: SD \leq 0.02 $\mu\text{g/g}$ or RSD \leq 0.5% whichever is larger (Reference gas) Hydrogen: SD \leq 0.04 $\mu\text{g/g}$ or RSD \leq 2.0% whichever is larger (Reference gas)
Sensitivity (minimum reading)	Oxygen/Nitrogen: 0.001 $\mu\text{g/g}$	Hydrogen:0.0001 $\mu\text{g/g}$	Oxygen/Nitrogen/Hydrogen: 0.001 $\mu\text{g/g}$
Carrier gas	He carrier gas: Purity greater than 99.995%, Pressure 0.35MPa Stainless steel tube (O.D.3mm) and suitable connector fitting within 3m of unit Dry air or N ₂ as operating gas: Pressure 0.45MPa Nylon pipe (O.D.6mm) and suitable connector fitting within 5m of unit	Carrier gas (Ar) purity: 99.995% or more; Supply pressure: 0.35 MPa Operating gas (hydrogen/dry air) supply pressure: 0.45 MPa	He carrier gas: Purity greater than 99.995%, Pressure 0.35MPa Stainless steel tube(O.D.3mm) and suitable connector fitting within 3m of unit Dry air or N ₂ as operating gas: Pressure 0.45MPa Nylon pipe(O.D.6mm) and suitable connector fitting within 5m of unit
External dimensions	750mm(H)×785mm(D)×653mm(W)	750mm(H)×785mm(D)×653mm(W)	750mm(H)×785mm(D)×653mm(W)

■ Dimensional outline drawing



■ Installation Example



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