HiFluid
Driven by Reliability & Performance

Servo Electric Boosting System

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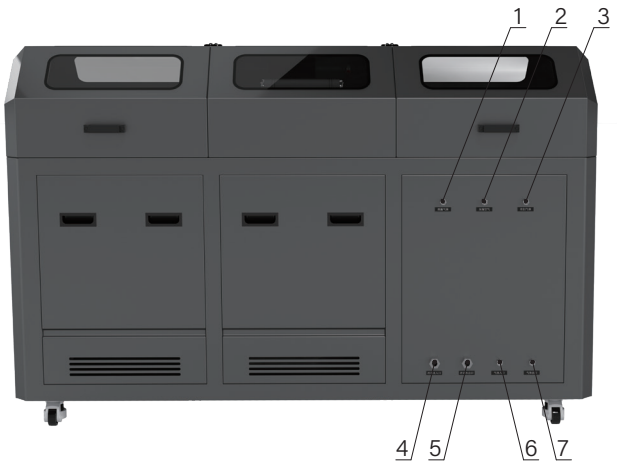
HIFLUID

HiFluid offers a comprehensive product portfolio, delivering suitable solutions for a wide range of applications worldwide.

Independently developed and manufactured by HiFluid Industrial, the Servo Electric Gas Booster System operates without a hydraulic power unit or compressed air supply. It adopts direct motor-driven technology combined with an advanced servo control system to efficiently boost gas media, enabling precise control of both pressure and flow.

The system is designed with a standard maximum working pressure of up to 1,200bar. For applications requiring higher operating pressures, customized designs can be provided to meet specific process requirements.



1. Leak Port
2. Air Supply
3. Purge Port
4. Cooling Inlet
5. Cooling Outlet
6. Gas Inlet
7. Gas Outlet

Key Advantages

- Specially designed for high-pressure gas applications; compatible with multiple gases.
- Compact footprint, low noise, environmentally friendly, and energy-efficient.
- Intelligent automated control, fully compatible with various communication protocols.
- Equipped with a self-cooling system featuring spiral flow guidance for uniform and efficient heat exchange.
- Optional remote monitoring modules available.
- Excellent primary sealing performance with oil-free lubrication, ensuring long service life.
- Maintenance-friendly design, significantly reducing seal replacement time.
- Modular design with flexible configurations and diverse options.
- Flow continuously adjustable from 0% to 100%.
- Extremely high power efficiency.

Typical Applications

- **Leak Testing:** Supplies high-pressure gas for airtightness tests to detect leaks in components.
- **Gas Filling:** Enables contamination-free, high-flow gas filling of cylinders, equipment, or systems to achieve required pressure levels.
- **Semiconductor CO_2 Applications:** Semiconductor manufacturing processes such as cleaning, atomization, and etching.
- **Gas-Assisted Molding:** Provides high-pressure, high-flow gas to improve molding processes and product quality.
- **Hot Isostatic Pressing (HIP):** Pressurizes inert gas for HIP furnaces to achieve superior material performance.
- **Chemical Production:** Multi-stage pressurization of ethylene for polymerization in batch and tubular reactors.

Type Coding

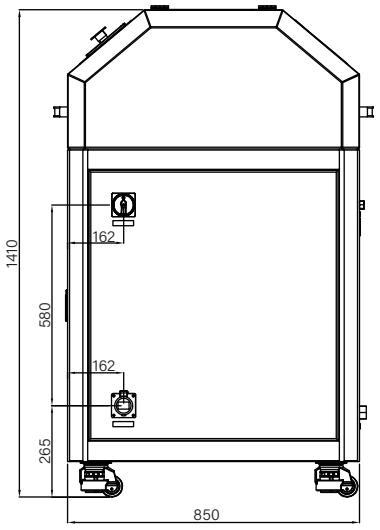
HF EGS - 15 - 700 - CO_2

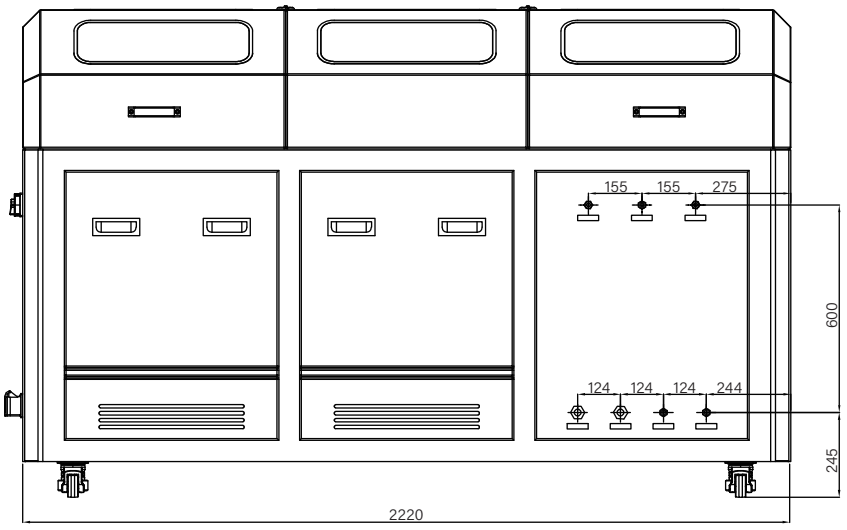
- HF: HiFluid
- EGS: Servo Electric Boosting System
- 15: Displacement per Cycle / 100 (ml) (Add "T" after the figure for two-stage boosting)
- 700: Maximum Working Pressure (bar)
- CO_2: Special Code

Product Parameters

Type	Model	Displacement /Cycle (ml)	Pressure Limit						40 Times Per Minute Typical Flow Rate Reference		
			Max. Outlet Pressure		Min. Inlet Pressure		Max. Inlet Pressure		Inlet Pressure		Flow Rate Nm^3/h
			bar	psi	bar	psi	bar	psi	bar	psi	
Single-Stage Double-Acting	HFEGS-80-120	8042	120	1740	3.4	50	120	1740	50	725	917
	HFEGS-30-350	3141	350	5075	3.4	50	350	5075	50	725	358
	HFEGS-15-700	1539	700	10150	3.4	50	700	10150	100	1450	351
	HFEGS-10-1200	950	1200	17400	3.4	50	1200	17400	200	2900	433
Double-Stage Single-Acting	HFEGS-40T-350	4020	350	5075	3.4	50	120	1740	50	725	458
	HFEGS-40T-700	4020	700	10150	3.4	50	120	1740	80	1160	733
	HFEGS-40T-1200	4020	1200	17400	3.4	50	120	1740	100	1450	917
	HFEGS-15T-700	1570	700	10150	3.4	50	350	5075	100	1450	358
	HFEGS-15T-1200	1570	1200	17400	3.4	50	350	5075	200	2900	716

Structural dimensions





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