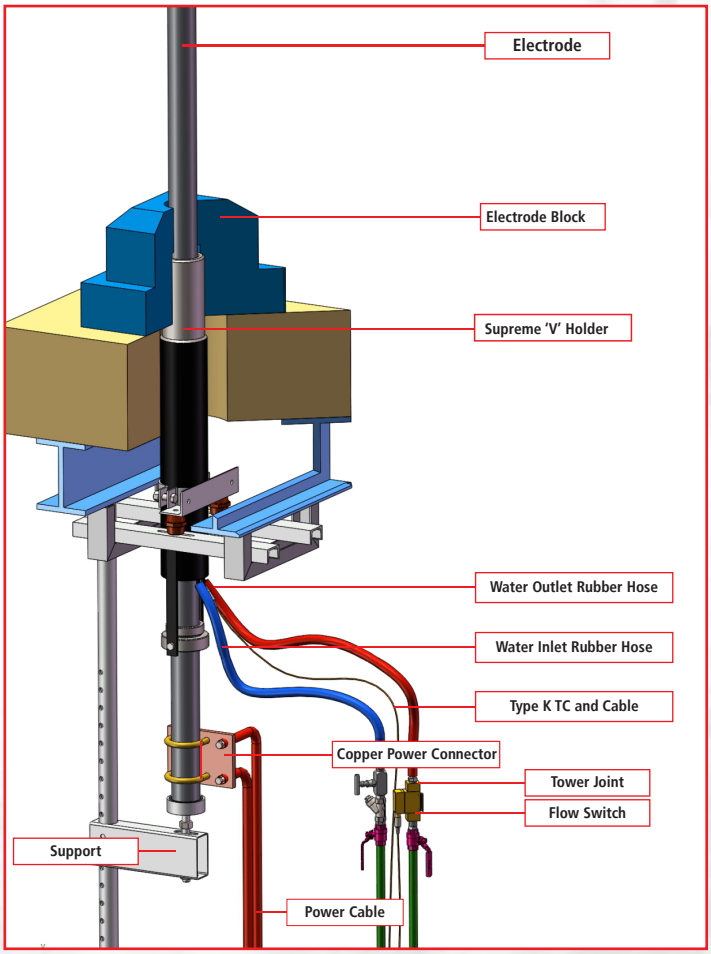
Hotwork INTERNATIONAL THAILAND

Supreme 'V' Electrode Holder

- Robust no weld design
- High cooling capacity
- Increased Efficiency
- Easy to replace and low maintenance
- Bottom Installation
- Side Installation
- No weld in hot spot, extended life time
- Variable cooling range
- Improved cooling distribution
- Electrode block drawings and engineering
- Unlimited electrode pushing, minimal leaks
- High Stock availability



The Supreme "V" electrode holder, engineered by **Hotwork-XiX**, is designed for maximum efficiency while maintaining the rugged durability of our established holder range.

Its flexibility allows it to adapt to the changing needs of glass contact refractories, with adjustable cooling that helps preserve refractories throughout their service life.

Built for molybdenum electrodes, each holder comes equipped with a Type "K" mineral insulated thermocouple for precise hot face temperature monitoring.

Holder length and dimensions are available custom made to suit specific installation requirements.

The water cooled nose, crafted from high-temperature resistant alloy with machined waterways, eliminates welds at the hot face. This ensures effective cooling close to the glass and a reliable seal.

With no welds exposed, electrodes can be advanced safely and repeatedly without risk of holder damage, minimizing the need for costly hot repairs.

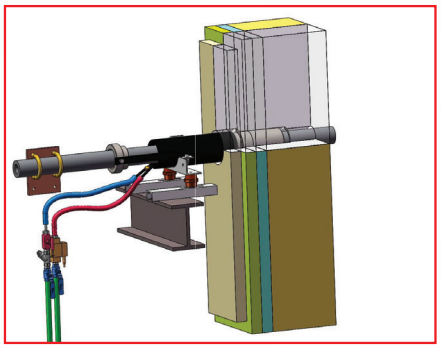
Every Supreme "V" is supplied with a molybdenum fixation ring and optional high-performance accessories:

- High-temperature connection hose (rated 300°C, 200 psi)
- Brass body needle valves
- Isolator
- Ball cock/sensor
- Water flow switches
- Flexible hose
- Copper clamps for power and ground terminations
- Stainless steel hose clips (1 mm thickness)
- Fixing device
- Flexible cable

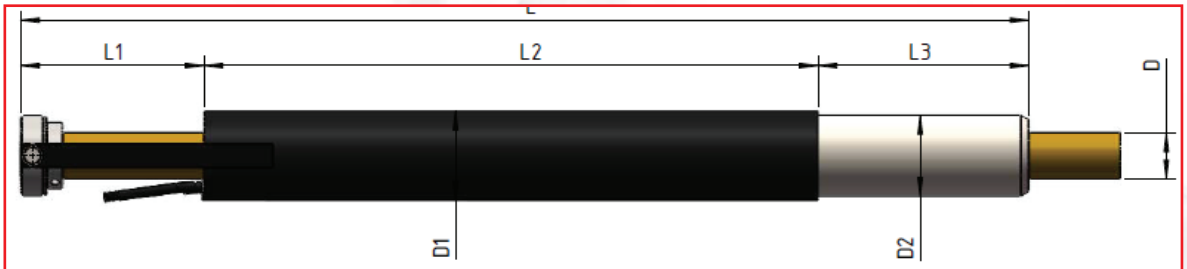
The adjustable fixing holder also includes a protective plate to prevent electrode slippage.

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In addition to standard Bottom installation, the Supreme "V" can also be installed from the Side, offering greater flexibility in furnace design and operation. Side installation, commonly used for electric boosting, introduces power directly into the glass bath especially in lower regions not efficiently heated by fuel burners.



This increases melting capacity, improves glass quality, enhances flow control, and serves as a clean, efficient alternative or complement to fossil fuels. When used in sidewall applications, the Supreme "V" maintains all of its advantages: rugged durability, precision water cooling via a weld-free hot face, and integrated temperature monitoring. Side mounting also improves access for adjustment, monitoring, and maintenance helping reduce downtime while ensuring stable, long-term performance. With its versatility and clearly defined water quality and flow requirements, the Supreme "V" offers glass manufacturers a reliable solution for both Bottom and Side furnace installations, delivering optimized performance, higher energy efficiency, and improved product quality.



Hotwork-XiX Supreme "V"	Electrode Diameter (INCH)	Electrode Diameter (mm)	Holder Length mm	Holder Bottom Length mm	Holder Body Length mm	Holder nose Length mm	Holder Body Diameter mm	Holder nose Diameter mm	Thermocouple
	D/Inch **	D/mm	L/mm *	L1	L2 *	L3	D1	D2	
Standard Holder Dimension	1.25	31.75	1100/800	200	670/370	230	73	64	K-Type
	2	50.8	1100/800	200	670/370	230	89	97	K-Type
	2.5	63.5	1100/800	200	670/370	230	105	114	K-Type
	3	76.2	1100/800	200	670/370	230	114	127	K-Type

* Holder length L can be customer sized according to refractory layout;

** Hotwork-XiX can also design different holder size according to customer sized electrodes and refractory layout;

To ensure optimal performance and safety, water quality and flow parameters are critical:

Water inlet pressure: 4–6 Bar
(minimum 2.5 Bar for emergency use only)
pH range: 6.5–8.0
Total hardness: ≤50 ppm ($CaCO_3$)
Total dissolved solids: ≤100 ppm, preferably <30 ppm
Iron (Fe^2/Fe^3): ≤1 ppm
Total suspended particles: ≤10 mg/L
Oil content: <0.5 mg/L
Solvents: <50 µg/L
Conductivity: 60–200 µS/cm

Flow requirements for different holder sizes:
1.25" and 2" holders: 5–10 liters/minute
2.5" holder: 10–15 liters/minute
3" holder: 10–15 liters/minute

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Buenos Aires, Argentina

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Noumea, New Caledonia

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