



Valentek S.r.l.

Automation Solutions

CP 2.0

**CIRCULAR WELDING
POSITIONERS**



Valentek stands out for the premium quality of its products engineered with durable materials and cutting-edge technologies and distinguishes itself through the high flexibility of its services.



www.valentek.it

CP 2.0 CIRCULAR WELDING POSITIONERS

Advanced automation for perfect structural joints and uniform finishes

The Valentek CP range represents the cutting-edge solution for automated circumferential welding of cylindrical, tubular, and hollow components. Designed to satisfy the most demanding industrial sectors, the CP series ensures top-quality joints, a flawless aesthetic finish, and process continuity that eliminates the typical criticalities of manual welding.

Thanks to the integration of MIG/MAG, TIG, PLASMA, and SAW technologies, CP systems guarantee superior mechanical resistance and perfectly repeatable results, optimizing production times even on large batches.



Rotational Precision and Structural Reliability

The mechanics of the CP range are designed to operate under dynamic load conditions, guaranteeing millimetric stability:

- **Consistent Quality:** Continuous circumferential welding with a homogeneous finish along the entire perimeter.
- **High-Precision Rotation:** Smooth and controlled movements for perfectly centered, defect-free joints.
- **Robust Architecture:** Oversized structures ideal for processing pipes, flanges, tanks, dished ends, and pressure components.
- **Solidity:** Systems suitable for applications subject to mechanical stress, vibrations, and high pressures.

Intelligent Control and Smart Factory

The electronic brain of CP positioners transforms welding into a data-driven process:

- **Advanced PLC & NC:** Complete cycle management through latest-generation numerical controls.
- **Absolute Repeatability:** Guarantee of consistent quality from the first to the last piece of the batch.
- **Total Digitalization:** Complete traceability of process parameters and pre-arrangement for smart factory systems.
- **Remote Service:** Integrated remote assistance module for real-time technical support.

CP Standard Models

The pillar of the range for linear and precise processing.

- **Fixed head configuration** with motorized rotation.
- **Axially movable tailstock** to adapt to different lengths.
- **Upper beam with axially sliding welding head** for rapid positioning.

CP DH Models

Double Head Version

Maximum flexibility on complex components.

- **Two axially movable heads: one motorized and one idle.**
- **Fixed central lifter** to ease loading, positioning, and component support.
- **Beam with movable welding head** to cover the entire working area.



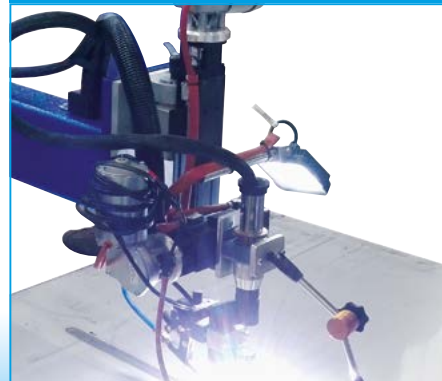
Can be combined with WF4R



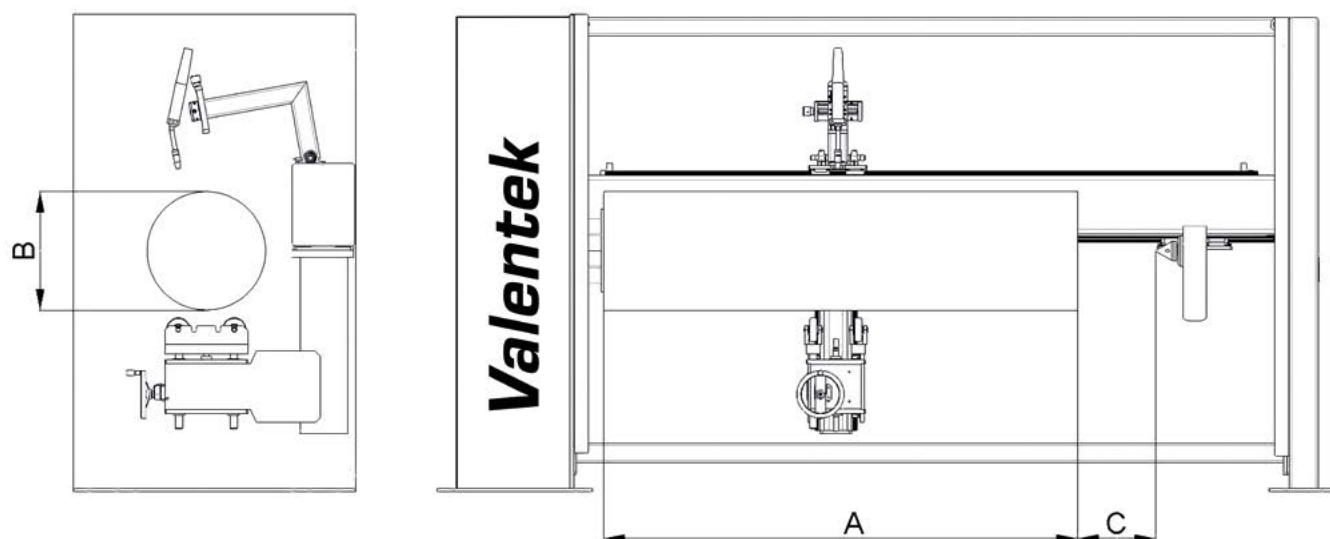
Can be combined with OSCILLATOR



Can be combined with AVC



Technical features CP 2.0



Model	CP500	CP1000	CP1500	CP2000	CP2500	CP3000
A) Useful welding length (mm)	500	1000	1500	2000	2500	3000
B) External weldable diameters (mm)	50÷600					
C) Tailstock release stroke (mm)	150	150	150	200	200	200
Load capacity (kg)	300	300	300	400	400	500
Applicable welding processes	MIG/MAG-TIG-PLASMA-SAW					

CP 2.0 Accessories

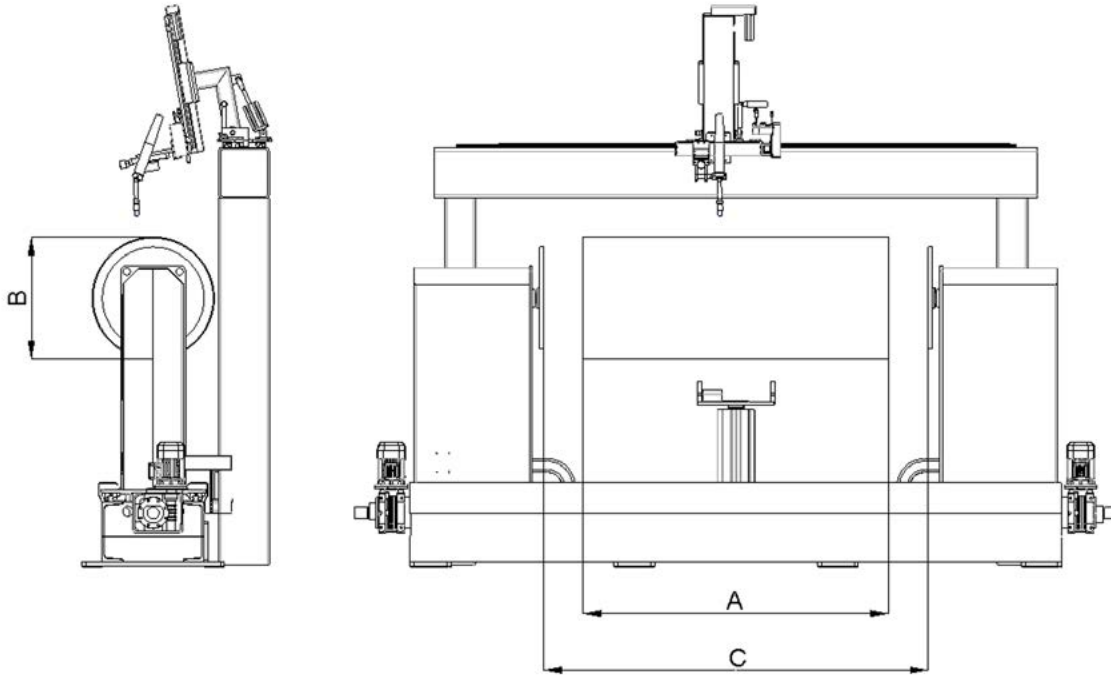
- Adjustable lift with handwheel and pneumatic release
- Adjustable double lift with handwheels and pneumatic release (not applicable to CP500)
- Second torch carriage
- Motorised vertical slide, 300 mm stroke
- Motorised horizontal slide, 200 mm stroke
- Motorised torch carriage movement
- 3-jaw self-centring chuck *
- Upper welding protection shoe
- WF4R cold wire kit
- 2-axis probe tracker
- 2-axis laser tracker
- AVC kit
- 50 mm electronic oscillator
- 1-head flux recovery system
- 2-head flux recovery system
- LED pointer

* Note: fitting the spindle reduces the effective length of the system

INDUSTRY VERSATILITY AND “NON-STANDARD” CUSTOMIZATION

Beyond the Standard: Our engineering department goes beyond the catalog. We design fully customized solutions developed to solve unique application challenges and non-standard geometries, while maintaining the engineering approach that distinguishes the Valentek brand.

Technical features CP DH



Model	CP1500DH	CP2000DH	CP3000DH	CP4000DH	CP5000DH	CP6000DH
A) Useful welding length (mm)	1500	2000	3000	4000	5000	6000
B) External weldable diameters (mm)	50÷600					
C) Tailstock release stroke (mm)	1900	2400	3400	4400	5400	6400
Load capacity (kg)	300	400	500	800	800	800
Applicable welding processes	MIG/MAG-TIG-PLASMA-SAW					

CP DH Accessories

- Second torch carriage
- Motorised vertical slide, stroke 300 mm
- Motorised horizontal slide, stroke 200 mm
- Motorised torch carriage movement
- 3-jaw self-centring chuck *
- Upper welding protection shoe
- WF4R cold wire kit
- 2-axis probe tracker
- 2-axis laser tracker
- AVC kit
- 50 mm electronic oscillator
- 1-head flux recovery system
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- LED pointer

* Note: fitting the spindle reduces the effective length of the system

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COMPANY PROFILE

Valentek S.r.l. is the experience that innovates automated welding. Founded by a team of professionals with over 25 years of experience in the industrial automation sector, **Valentek S.r.l.** is a dynamic company that blends invaluable technical know-how with a constant drive toward technological innovation.

Our mission is to transform our clients' manufacturing challenges into concrete solutions, engineering systems that guarantee the highest levels of efficiency, precision, and flexibility. We do not just supply machinery; we build long-lasting partnerships based on quality and reliability.



Valentek
Automation Solutions

VALENTEK: The efficiency that welds the future: safe, sustainable, automated.

THE VALUE OF CHOOSING VALENTEK

- **Consolidated Know-How:** A technical heritage of over two decades applied to modern market challenges.
- **Tailored Engineering:** Design and development of customized solutions, tailored to the actual needs of the client.
- **Technological Vanguard:** Integration of the most advanced control and digitalization standards.
- **Specialized Service:** Qualified technical assistance and constantly updated personnel.
- **Safety and Sustainability:** Systems engineered in strict compliance with regulations, optimizing resource and energy consumption.

A GLOBAL BENCHMARK

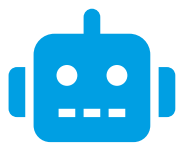
Thanks to a proven track record in the field of revamping and retrofitting existing systems, Valentek has established itself as a cross-industry benchmark across various industrial sectors. From initial consulting to commissioning, every intervention aims at a clear goal: optimizing duty cycles to maximize productivity.

Choosing Valentek means investing in safe, efficient systems ready for the challenges of Industry 5.0, where the excellence of the welded joint meets manufacturing process sustainability.

Efficient, safe, and sustainable solutions for every automated welding need.

SUPPLY AND INSTALLATION OF:

In a global market that demands efficiency and competitiveness, **Valentek** solutions optimize production cycles, drastically reduce downtime, and guarantee consistent welding quality, protecting the value of your investment over time.



Welding automation systems



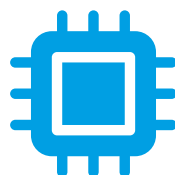
Welding system components



Welding vision and control systems



Radio remote control systems



Industry 5.0 automated management interfaces



Bespoke automated systems

VALENTEK SERVICES:

Automation does not end with installation. **While others stop at the sale, Valentek maximizes your investment with specialized service**, structural revamping, and emergency interventions—ensuring your welding line remains high-performing, safe, and technologically advanced, year after year.



Automated welding system revamping



Scheduled and extraordinary maintenance



Emergency breakdown service



Safe equipment relocation

Technological Revamping: Don't replace—evolve. We upgrade your existing systems to bring them up to current production standards. Revamping is a **sustainable and cost-effective choice**, delivering “new machine” performance on a structure that is already amortized.



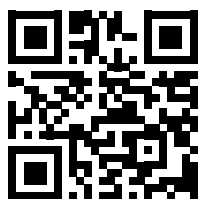
Strategic Maintenance: Scheduled interventions designed to eliminate unexpected downtime and preserve mechanical precision.

Emergency Intervention & Safety: Specialized personnel for rapid troubleshooting and completely safe equipment relocation, minimizing operational risks.



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Valentek stands out for the quality of its products, engineered with durable materials and cutting-edge technologies that are also distinguished by their application flexibility



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