CEREST
Ingénierie Industrielle - Machines spéciales



Welding turntable

Post template

Mechanical engineering **Realizations** **Cabling** **Machines**

This screwer allows the welding of columns for concrete formwork formwork. The principle is obviously adaptable to any other type of customer parts requiring high positioning accuracy and repeatability.
The pneumatic clamping movements as well as the motorized rotation allow the welder to work in the best conditions:
- Ergonomics (accessibility of welds through open design and rotational movement),
- security (control post remote from dangerous areas with supervision for scrutineer)
- welding quality (repeatability of positioning and tool strength, favourable position of components to control welding penetration).

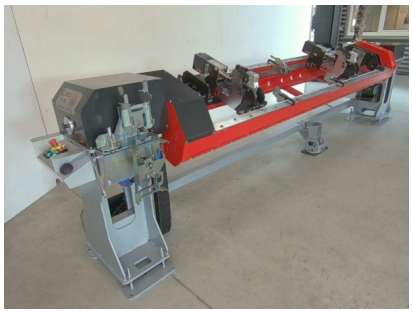
The flexibility of the tools, manual or attached to the structure, offers the possibility of welding a large number of types of posts (variation in dimensions, type and number of components, etc...) while reducing series changeover times as much as possible.
Indeed, a single 19mm wrench will allow the replacement of all tools.

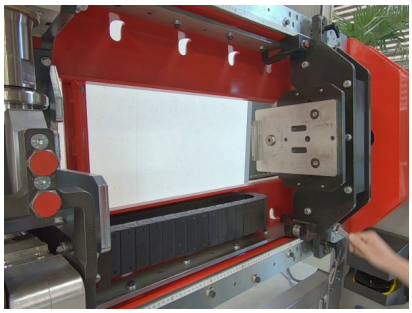
Particular care in the design of the tools makes it possible to limit positioning errors and therefore the retouching rate as much as possible (poka-yoke principle, stop positioning by pegging).

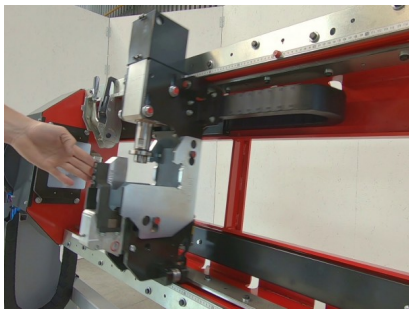
Finally, we took into account, from the design stage, the constraints of series change by facilitating the identification of tools and their positioning in order to make series change operations as intuitive as possible (in particular by creating a single workstation sheet valid for 21 column configurations).

SPECIFICATIONS :

- **Pneumatic clamping in 3 directions (static iso)**
- **Rotation at 315°**
- **Length of the posts for this station from 1 to 3m**
- **4 product families (sizes and type of basic profiles)**
- **21 product configurations**
- **8 types of hand tools provided, 14 taken into account during design**







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CEREST
20 Rue des Frères Lumiere
68000 Colmar - FRANCE

EMAIL
cerest@cerest.com

PHONE
+33 (0)3.89.21.02.56

INTERNET
www.cerest.com