

Welding Manipulator

- Multiform building block system
- Holistic table-flap
- Fitting cable with plastic pulling
- Built-in weight balance
- Reliable hoist or lower parts
- Machine tool rail design

The columned automatic welding manipulator is a special auxiliary device for welding cylindrical workpieces, which can weld inside and outside lengthways seam automatically, as well as girth seam. It can be assembled automatic welding center with hanging submerged arc welding machine, welding rotator or Positioner to carry out linkage operation. Widely used in boiler, pressure vessel, pipeline, shipbuilding etc.



This unit is made up of elevator, trolley, rotator and electric control system. The basic model is fixed column, customers can choose rotator, trolley and crossed electric-inching dragging board according to their requirement.

Bellow are the specification of various models:

“TZ” do not have a trolley, and the column can't rotate.

“TZ1” do not have a trolley, but the column can rotate manually.

“TZ2” do not have a trolley, but the column can rotate electrically.

“TZ3” has electric driving trolley, but the column can't rotate.

“TZ4” has electric driving trolley, and electric column rotation function is available.

This unit adopts building block system, it can be transformed to various models. All above various Xarm achieve hoists or lower and flexible on column by sliding devices, to accomplish welding of unbent seam by Xarm's flexibility, to accomplish welding of girth seam by rubber wheel driving workpiece along with rotators.

TZ 3.5 * 3.5 upwards can be added inner-extension arm. TZ-5*5 upwards can add chair for the operating worker.

TZ6 upwards can add walk platform on the boom.

Specification	2 x 2	3 x 3	4 x 4	5 x 5	6 x 6	7 x 7	8 x 8
The Xarm hoists or lower journey (m)	2	3	4	5	6	7	8
Effective flexible journey of Xarm (m)	2-4	2.5-5	3-7	4-8	4-8	4-8	4-8
Turning range round in the post (°)	± 180 °						
The Xarm hoists or lower speed (mm/min)	1000						
Flexible speed of Xarm (mm/min)	150-1500 (stepless speed regulation)						
Turning speed round in the post	0.2						
The total load capacity on the Xarm (Kg)	100	200	300	400	500	500	500
Rail type / center distance of rail	P43/2000(P34/2500)						