

Column and boom welding manipulators

CZ 4 × 4m Technical Data



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Effective stroke of horizontal arm lifting	4000mm
Effective stroke of horizontal arm extension and contraction	4000mm
Lateral arm extension speed (mm/min)	150-1200
Drive mode	Gear and rack pair
Lifting speed (mm/min)	700
Drive mode	Chain wheel chain pair
Column rotation angle	±180°
Rotation locking method	Manual locking
Use voltage	380V

Column and boom welding manipulators adopts a classic and stable structure, using gear rack transmission and linear guide motion system, providing an excellent solution that combines multifunctionality and cost-effectiveness.

In welding applications, it exhibits excellent adaptability, especially in single and double wire welding scenarios, and is highly compatible with welding processes such as MIG/MAG and TIG. This device reserves a linkage interface that can synchronize with roller frames, positioners, etc. It is very suitable for automatic welding of internal and external circumferential seams, corner welds, and internal and external longitudinal seams of components. It is widely used in industries such as pressure vessels, petrochemical vessels, wind power equipment, pipelines, steel structures, boilers, shipbuilding, etc.

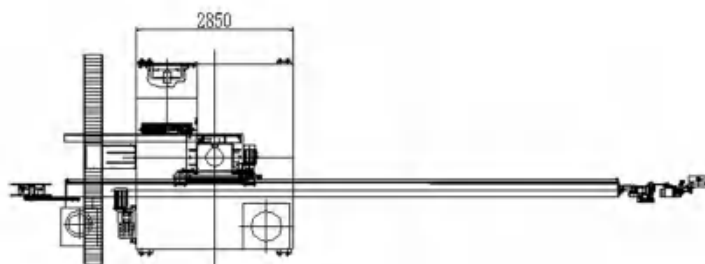
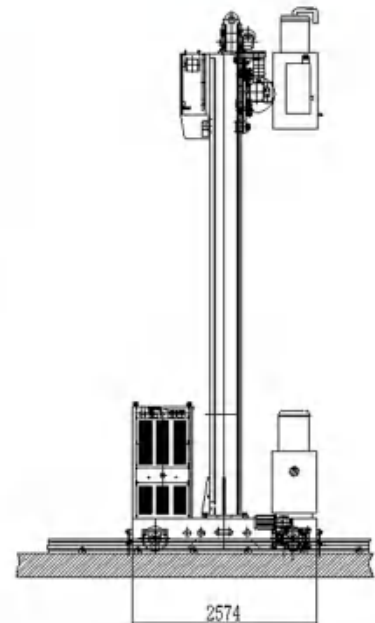
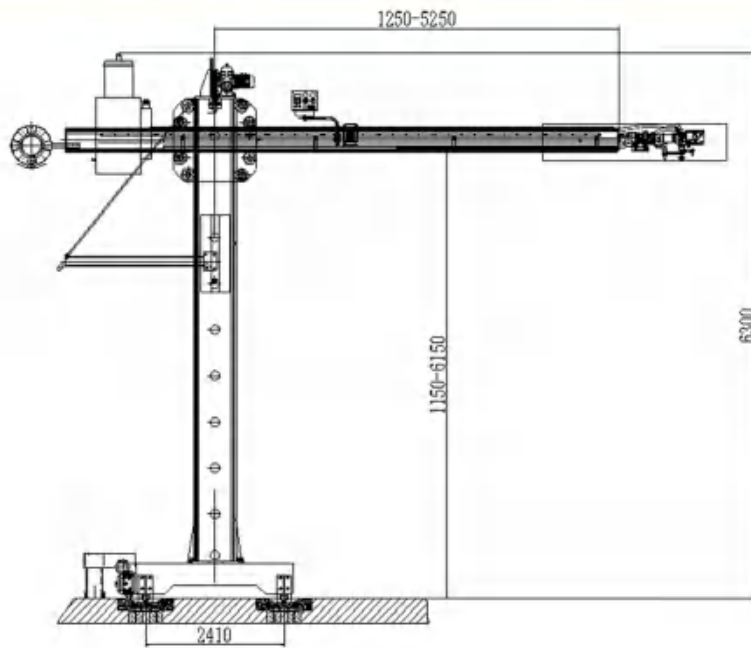
During operation, the welding machine or automatic welding head can be easily positioned as needed, supporting manual, semi-automatic, or fully automatic welding modes. It can be matched with various types of welding machines and adds auxiliary functions such as tracking, swinging, monitoring, and flux recovery and transportation to meet diverse needs.

- Improve welding quality
- Improve welding efficiency
- Reduce labor intensity

Improve efficiency	Improve productivity An effective way to ensure welding quality.
Facilitate integration	Easy to integrate with other products (such as positioners, roller frames) integrate.
Ensure product reliability	Specially designed for demanding processing Workshop environment design and manufacturing.

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Headoffice: 3185 Dundas St W, Oakville Ontario Canada L6M 4J4

Phone: +1-514-550-1191

Metalleco US: 350 Terry St, Longmont, Colorado 80501 United States of America

Phone: +1-514-550-1191

Metalleco Japan: JRp Hakata Bldg. 3f, 8-1 Chuogai, Hakata-eki, Hakata-ku, Fukuoka City

Phone: +81-90-9516-0894

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METALLECO INC.

Ship to: 3185 Dundas St W, Oakville Ontario L6M 4J4
CANADA

Mail to: nick.xiao@metalleco.ca

Phone: +1-514-550-1191

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