

■ 焊接操作机 Welding Manipulators



○ 操作机使用中 / Testing of manipulator

焊接操作机是一种应用广泛、自动化程度高的一种焊接辅助设备，它通过横臂的升降、伸缩和立柱的回转，可满足不同工件的焊接需要。本设备的横臂前端需配备焊机，实现自动焊接。该设备还可以与焊接滚轮架组合成焊接中心，可实现圆筒形金属结构件的内外环缝的自动焊接，广泛应用于锅炉、石化、造船、汽车、钢结构等行业。本焊接中心结构先进，功能齐全、控制灵活、操作方便，是提高焊接质量和实现焊接自动化的理想设备。

Welding manipulator / welding column and boom is a kind of widely-used and high-automated auxiliary equipment in welding industry. Through the rotation of column and retraction & lifting of boom, welding manipulator meets welding requirements of cylinders with different sizes. Welding head is fixed at one end of manipulator to carry out automatic welding. This kind of welding manipulator could also be operated together with welding rotator/ tank turning roller to carry out round and longitudinal welding of inside and outside seam, which has got extensive application in Boiler, Petrochemical, Shipbuilding and Steel structure industries.

技术参数 / Technical Parameters

型号 Model		LHQ 轻型 Light	LH 中型 Medium	LHM 重型 Heavy	LHW 超重型 Super Heavy
横臂升降行程 Boom Lifting Stroke (meter)		1-3	2-4	2-8	2-13
横臂伸缩行程 Boom Retracting Stroke (meter)		1-3	1-4	2-8	4-12
横臂升降速度 Lifting Speed (mm/min)		800	800	800	800
横臂伸缩速度 Retracting Speed (mm/min)		120-1200	120-1200	120-1200	120-1200
立柱回转 Column Rotation	角度 Angle(°)	±180°	±180°	±180°	±180°
	速度 Speed(rpm)	手动 Manual	0.11 手动 Manual	0.11 手动 Manual	0.10 手动 Manual
台车行走速度 Trolley Travel Speed (mm/min)		手动 Manual	2000	2000	2000
台车导轨中心距 Trolley Span(mm)		1060	1500	2000	2500

■ 焊接操作机 *Welding Manipulators*

性能特点 / Features

1. 焊接操作机结构形式分为：固定式，固定带回转式，移动带回转式三种组合。
2. 立柱和横臂均采用冷弯焊接结构，整体折边成型，并经退火处理后精加工，具有较好刚性及强度。
3. 为安全起见，横臂升降装置配有意外防坠落装置，采用棘条棘爪结构。
4. 横臂伸缩采用变频调速，稳定可靠。
5. 横臂前端配有十字微调结构，可通过手控盒调节。
6. 八只导向轮均采用偏心轮结构形式，在安装调试时，可以调节偏心轴从而调节对导轨的松紧，调整结束后通过双级螺母锁紧。
7. 立柱回转分为手动和电动两种形式。回转到位后锁紧。
8. 电器部分分为电控箱和手控盒两部分。
9. 可选项：移动台车，载人座椅和平台，拖链走线，焊缝跟踪和监视系统，焊剂输送回收系统。

1. Structure: fixed type, fixed with rotation type and movable type.
2. Both column and boom are cold-bended and goes through annealing treatment.
3. There is anti-falling device to ensure the safety of boom lifting.
4. Boom retracting adopts VFD, being stable and reliable.
5. X-Y slide is fixed on one end of boom, which can be controlled by hand control panel.
6. Control roller bears eccentric shaft, which can decrease clearance between roller and rail.
7. Column revolve could be recognized by manual operation or electric drive.
8. Control unit includes: electric control board and hand control panel. Interface with positioner and rotator is offered.
9. Optional: Trolley, Director chair or platform, drag chain, seam tracking and monitor system, and flux recovery system.



➤ 移动式重型操作机 / Movable heavy duty manipulator



➤ 超重型操作机 / Heavy duty manipulator



➤ 半门式双机头操作机 / Double-head manipulator in half door



➤ 电极对焊中心 / Electrode welding center

■ 焊接操作机 Welding Manipulators



➢ 轻型焊接操作机 / Light duty manipulator



➢ 移动式操作机 / Movable type



➢ 双立柱操作机 / Double column manipulator

可选配件 / Optional accessories



- 1、机头和十字微调
welding head and X-Y slide
- 2、焊剂回收机
flux recovery machine
- 3、激光焊缝跟踪
laser seam tracing device
- 4、操作椅 operator chair

