焊接操作机系列

WELDING COLUMN&BOOM FEATURES

- 焊接操作机具有结构先进，功能齐全，操作方便等特点，对提高焊接质量起了可靠的保证作用。根据横臂前端的承载重量、有效伸缩、规格型号可分为通用型、重型、载人型；结构形式有固定式、固定带回转式、移动带回转式三种。
- 所有操作机立柱、横梁制造工艺均采用优质钢材整体折弯或优质型材组焊成形，导轨为45号钢，经过时效处理、刨削、磨削等加工手段，防止导轨变形，提高其精度，增长使用寿命。

- The Welding Column Boom features advanced structure, comprehensive functionality, and ease of operation, ensuring a reliable guarantee for enhancing welding quality. It can be categorized based on the carrying capacity at the front end of the boom, effective extension, and specifications into universal purpose, heavy-duty, and operator seated types. There are three structural forms: fixed, fixed with rotation, and mobile with rotation.
- The manufacturing processes for all columns and booms involve bending high-quality steel materials or welding high-quality profiles to form an integrated structure. The rails are made of No.45 Steel, subjected to aging treatment, planing, grinding, and other processing methods to prevent rail deformation, enhance precision, and prolong their service life.

BCZQ通用型焊接操作机系列

BCZQ UNIVERSAL TYPE WELDING COLUMN BOOM SERIES

性能特点

- 导轨为“V”形；
- 具有调节方便，行走平稳、精度高等特点；
- 采用进口变频器、调速范围大、精度高；
- 采用自动锁紧装置，当链条发生断裂时，挂钩在弹簧作用下挂入防坠落孔里，从而防止横臂和滑板往下坠落，起到保护设备和操作人员安全的作用。

Features

- Column & Boom guiding rails are designed in a "V" shape.
- They offer convenient adjustment, smooth movement, and high precision.
- Imported frequency converters are utilized, providing a wide speed range and high accuracy.
- An automatic locking device is employed. In case of chain breakage, the hook hangs into the anti-fall hole under spring tension.This prevents the boom and slider from falling down, ensuring the safety of both equipment and operators.

技术参数 Technical Parameter

型号 Model / 技术参数 Parameter	BCZQ1.5*1.5	BCZQ2*2	BCZQ3*3	BCZQ4*4—4*5
升降行程（mm） Effective lifting range (mm)	1500	2000	3000	4000
伸缩行程（mm） Effective retracting range (mm)	1500	2000	3000	4000—5000
升降速度（mm/min） Lifting speed (mm/min)	1000			
伸缩速度（mm/min） Retracting speed (mm/min)	100-1000			
横臂下沿离轨面最小距离（mm） Min. boom height (mm)	700-800			
横臂前端允许最大载荷（kg） Max.permissible load of at boom end (kg)	80-120			
立柱回转 Column rotation	手动/电动 Manual/Motorized			
台车行走（mm/min） Trolley travelling (mm/min)	手动/电动 Manual/Motorized			
台车内轨距（mm） Inner span of trolley rail (mm)	1000-2500			

BCZZ重型操作机系列

BCZZ HEAVY-DUTY WELDING COLUMN BOOM SERIES

性能特点

- 导轨为矩形;
- 具有承载大、稳定性好、下挠度低等特点;
- 采用拔叉抱死立柱装置，防止滑板和横臂下坠，以防止发生意外造成横梁坠落;
- 广泛用于大型筒体工件、结构体的自动焊接加工，是保障焊接质量、提高生产效率、改善工作环境的自动化高效辅机。

Features

- Column and Boom guide rails are rectangular in shape.
- They possess characteristics such as high load-bearing capacity, excellent stability, and low deflection.
- Implemented with a fork-stopping column device to prevent the slider and boom from falling down, thereby avoiding accidents caused by the beam dropping.
- Widely used in the automatic welding processing of large cylindrical workpieces and structural bodies. It serves as an efficient auxiliary machine in automation, ensuring welding quality, enhancing production efficiency, and improving the working environment.

技术参数 Technical Parameter

型号 Model / 技术参数 Parameter		BCZZ4*4	BCZZ5*5	BCZZ6*6	BCZZ7*7—8*8	BCZZ9*9—12*12
升降行程（mm） Effective lifting range (mm)		4000	5000	6000	7000—8000	9000-12000
伸缩行程（mm） Effective retracting range (mm)		4000	5000	6000	7000—8000	9000-12000
升降速度（mm/min） Lifting speed (mm/min)		1000				
伸缩速度（mm/min） Retracting speed (mm/min)		100-1000				
横臂下沿离轨面最小距离（mm） Min. boom height (mm)		900-1200				
横臂前端允许最大载荷（kg） Max permissible load at boom end (kg)		200-300				
立柱回转 Column rotation	角度（°） Angle (°)	±180°				
	速度（rpm） Speed (rpm)	0.36rpm/或手动 or Manual rotation				
台车行走（mm/min） Trolley travelling (mm/min)		2000				
台车内轨距（mm） Trolley rail inner span (mm)		2000-3000				

BCZR载人型操作机系列

BCZR OPERATOR-SEAT TYPE WELDING COLUMN BOOM SERIES

性能特点

- 导轨为矩形;
- 配置有载人框和行走平台，可随横梁一起移动;人性化设计，可方便操作工高空作业;
- 立柱和横臂均采用整体箱形结构，机械强度高，稳定性好，结构紧凑;
- 横臂伸缩采用交流电机变频无级调速，起动力矩大，速度平稳，可靠性强。采用齿轮齿条啮合传动，传动精度高，无爬行，无抖动。

Features

- Column Boom guide rails are rectangular in shape.
- Equipped with a operator-carrying frame and a walking platform that moves along with the boom; designed for human convenience to facilitate high-altitude operations for operators.
- Both the column and boom adopt an integral box-type structure, providing high mechanical strength, excellent stability, and a compact design.
- The extension and retraction of the boom use AC motor variable frequency stepless speed regulation, offering high starting torque, smooth speed, and strong reliability. It utilizes gear-rack meshing transmission, ensuring high transmission accuracy, with no creeping and no jitter.

技术参数 Technical Parameter

型号 Model / 技术参数 Parameter		BCZR 4*4—5*5	BCZR6*6	BCZR7*7	BCZR8*8—14*14
升降行程（mm） Effective lifting range (mm)		4000—5000	6000	7000	8000—14000
伸缩行程（mm） Effective retracting range (mm)		4000—5000	6000	7000	8000—14000
升降速度（mm/min） Lifting speed (mm/min)		1000			
伸缩速度（mm/min） Retracting speed (mm/min)		100-1000			
横臂下沿离轨面最小距离（mm） Min. boom height (mm)		1200-1300			
横臂前端允许最大载荷（kg） Max.permissible load at boom end（kg）		500			
立柱回转 Column rotation	角度（°） Angle (°)	±180°			
	速度（rpm） Speed (rpm)	0.17rpm/或手动 or Manual rotation			
台车行走（mm/min） Trolley travelling (mm/min)		2000			
台车内轨距（mm） Inner span of trolley rail (mm)		2000-3000			


DEMAG


LT-HS100E2H